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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11548	24604	38281	1.55	2.0E-57	11424084	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
11548	24604	38282	1.55	2.0E-57	11424084	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
11582	24645	38327	1.78	2.0E-57	AJ245503.1	NT	Homo sapiens partial mRNA for PEX5 related protein
11582	24645	38328	1.76	2.0E-57	AJ245503.1	NT	Homo sapiens partial mRNA for PEX5 related protein
13214	26087	31684	2.69	2.0E-57	AF009688.1	NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds
2305	15437	28569	1.89	1.0E-57	AW503208.1	EST_HUMAN	UIHF-BNO-ald-g-07-Q-UJ.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078343 5'
8891	21970		1.87	1.0E-57	BE049031.1	EST_HUMAN	HYPOTHETICAL 9.3 KD PROTEIN;
12545	25369		11.29	1.0E-57	AW470791.1	EST_HUMAN	h333408.x1 NCI_CGAP_KU612 Homo sapiens cDNA clone IMAGE:2875499 3' similar to contains THR.Lb3
6794	18985	32288	0.93	9.0E-58	AA297847.1	EST_HUMAN	THR repetitive element;
12854	25567	31890	1.94	9.0E-58	BE395061.1	EST_HUMAN	EST11348 Uterus Homo sapiens cDNA 5' and
602	13791		1.08	8.0E-58	BE883716.1	EST_HUMAN	601309495F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
671	13857	28886	4.24	8.0E-58	AI798376.1	EST_HUMAN	601445948F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3650211 5'
671	13857	28887	4.24	8.0E-58	AI798378.1	EST_HUMAN	h24507.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2220181 3' similar to TR:O15475 O15475
1804	15047	28157	2.4	8.0E-58	11434821	NT	UNNAMED HERV-H PROTEIN;
1904	15047	28158	2.4	8.0E-58	11434821	NT	UNNAMED HERV-H PROTEIN;
3040	16216		2.76	8.0E-58	7706132	NT	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
7387	20485	33930	0.93	7.0E-58	BE501971.1	EST_HUMAN	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
11095	24188		4.54	7.0E-58	5174542	NT	Homo sapiens DHHC1 protein (LOC51304), mRNA
11170	24241	37873	2.81	7.0E-58	AW504108.1	EST_HUMAN	601346704F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3687577 5'
11170	24241	37874	2.81	7.0E-58	AW504108.1	EST_HUMAN	Homo sapiens MADS box transcription enhancer factor 2, polypeptide B (myocyte enhancer factor 2B) (MEF2B) mRNA
2328	15480	28593	1.53	6.0E-58	BE395061.1	EST_HUMAN	UIHF-BNO-ald-g-10-Q-UJ.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078887 5'
2448	15576	28706	5.25	6.0E-58	AU130689.1	EST_HUMAN	UIHF-BNO-ald-g-10-Q-UJ.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078887 5'
2866	16142	29160	1.01	6.0E-58	BE242150.1	EST_HUMAN	601309495F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
2866	16142	29161	1.01	6.0E-58	BE242150.1	EST_HUMAN	601309495F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
6299	19472	32827	0.98	8.0E-58	AF106911.1	NT	AU130689 NT2RP3 Homo sapiens cDNA clone NT2RP3001263 5'
10517	25552	37163	1.27	6.0E-58	11434746	NT	TCAAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAAP1219
12654	25434		1.22	6.0E-58	11528291	NT	TCAAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAAP1219
							Homo sapiens chemokine MIP-2 gamma (MIP-2 gamma) mRNA, complete cds
							Homo sapiens protein tyrosine phosphatase, non-receptor type 21 (PTPN21), mRNA
							Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
311	13527	26560	3.08	5.0E-58	4507334	NT	Homo sapiens synaptobin 1 (SYNJ1), mRNA
728	13910	26960	6.96	5.0E-58	BE763984.1	EST_HUMAN	RC4-NT0057-160600-016-b06 NT0057 Homo sapiens cDNA
1221	14382	27442	2.9	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1221	14382	27443	2.9	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1222	14382	27442	2	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1222	14382	27443	2	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
3400	16570	26685	4.09	5.0E-58	AA988183.1	EST_HUMAN	ts89e07.x1 NCJ CGAP Lu5 Homo sapiens cDNA clone IMAGE:1603908 3'
4373	17516	30496	0.93	5.0E-58	AI636745.1	EST_HUMAN	P19984 PROFILIN II;
5748	18938	33788	1.91	5.0E-58	11496282	NT	Homo sapiens placenta-specific 1 (PLACT), mRNA
6307	19479	32834	6.55	5.0E-58	H23072.1	EST_HUMAN	ym51h07.r1 Soares infant brain IN1B Homo sapiens cDNA clone IMAGE:52071 5'
6524	19686	33063	0.79	5.0E-58	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
6800	19760	33148	1.03	5.0E-58	11421330	NT	Homo sapiens apical protein, Xenopus laevis-like (APXL), mRNA
6917	20232	33685	0.6	5.0E-58	AF051334.1	NT	Homo sapiens ribitin (NBS) mRNA, complete cds
6917	20232	33686	0.6	5.0E-58	AF051334.1	NT	Homo sapiens ribitin (NBS) mRNA, complete cds
7255	20338	33788	0.71	5.0E-58	4885400	NT	Homo sapiens holocytochrome c synthase (cytochrome c heme-lyase) (HCCS) mRNA
8156	21238	34758	9.08	5.0E-58	8922693	NT	Homo sapiens hypodermal protein FLJ10828 (FLJ10828), mRNA
8548	21629	35167	0.68	5.0E-58	AB046837.1	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Ptp18 (PRP18), mRNA
10061	23096	36701	0.96	5.0E-58	11430847	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Ptp18 (PRP18), mRNA
10328	23363	36973	1.8	5.0E-58	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
10812	23646	37254	0.65	5.0E-58	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
12362	26065	37255	0.65	5.0E-58	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
12850	26102		1.47	5.0E-58	11426423	NT	Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA
384	13592	26627	1.71	4.0E-58	4502302	NT	Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit (oligomycin sensitivity conferring protein) (ATP5O) mRNA
819	13998	27052	1.87	4.0E-58	4504634	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
1498	14649	27731	1.24	4.0E-58	4503648	NT	Homo sapiens coagulation factor IX (plasma thromboplastin component, Christmas disease, hemophilia B) (F9) mRNA
2696	15816	28930	2.12	4.0E-58	U38251.1	NT	Human beta-pituitary-adenin (BAM22) gene, exon 3
3402	16572	28587	1.41	4.0E-58	D1670.1	NT	Human mRNA, Xq terminal portion
3834	16994	28996	1	4.0E-58	5031660	NT	Homo sapiens EGF-like repeats and discordin-like domains 3 (EDIL3), mRNA
7895	21045	34557	0.68	4.0E-58	BE463657.1	EST_HUMAN	hy18a02.x1 NCJ CGAP GC8 Homo sapiens cDNA clone IMAGE:3187642 3'
11624	24675	38366	7.44	4.0E-58	11424059	NT	Homo sapiens E1B-55kDa-associated protein 6 (E1B-AP6), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
345	13558		0.96	3.0E-58	R17678.1	EST_HUMAN	y910e02.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:31883 5'
1420	14574	27647	2.6	3.0E-58	4758981	NT	Homo sapiens peptide YY (PYY) mRNA
3246	16420	28435	3.07	3.0E-58	BF569848.1	EST_HUMAN	602185789F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4309943 5'
3246	16420	28436	3.07	3.0E-58	BF569848.1	EST_HUMAN	602185789F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4309943 5'
6390	19559	32918	0.61	3.0E-58	BE089509.1	EST_HUMAN	QV0-B10702-170400-194-109 B10702 Homo sapiens cDNA
6574	19736	33115	1.1	3.0E-58	F07058.1	EST_HUMAN	HSC1TG081 normalized infant brain cDNA Homo sapiens cDNA clone c-1908
6778	19933	33329	2.49	3.0E-58	AV712977.1	EST_HUMAN	AV712977 DCA Homo sapiens cDNA clone DCAAZG04 5'
863	14136	27197	12.47	2.0E-58	AF068624.1	NT	Homo sapiens 5-aminolevulinic acid synthase 2 (ALAS2) gene, complete cds
							ba08407.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823733 5' similar to gb:XB8391 60S RIBOSOMAL PROTEIN L6 (HUMAN); gb:XB1987 M.musculus mRNA for TAX responsive element binding protein (MOUSE);
1318	14474		7.88	2.0E-58	BE208532.1	EST_HUMAN	ba08408.x1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:2567704 3'
5451	18651	31630	0.94	2.0E-58	AW074831.1	EST_HUMAN	601499801F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3801911 5'
5473	25805	31652	2.63	2.0E-58	BE907186.1	EST_HUMAN	601499801F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3801911 5'
5473	25805	31685	2.63	2.0E-58	BE907186.1	EST_HUMAN	601499801F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3801911 5'
6182	19358	32706	1.7	2.0E-58	BF513488.1	EST_HUMAN	U1-H-BW1-ams-g-11-0-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071060 3'
							am57602.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1639674 3' similar to WP-ZK328.1 CE05065 UBIQUITIN CONJUGATING ENZYME; RECOVERIN SUBFAMILY OF EF-HAND CALCIUM BINDING PROTEIN;
6249	19423	32768	2.16	2.0E-58	A124874.1	EST_HUMAN	yp08406.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:196379 5'
6283	19456	32806	0.83	2.0E-58	R92587.1	EST_HUMAN	qm84001.x1 NCI_CGAP_Lu6 Homo sapiens cDNA clone IMAGE:1895424 3'
7086	20119	33533	0.83	2.0E-58	A1291407.1	EST_HUMAN	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
7307	20389	33848	2.79	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
7307	20389	33849	2.79	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
10879	24058	37692	18.01	2.0E-58	BF307745.1	EST_HUMAN	601890812F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131891 5'
11207	24278	37913	1.68	2.0E-58	AW872841.1	EST_HUMAN	hm25108.x1 NCI_CGAP_Thy4 Homo sapiens cDNA clone IMAGE:3013671 3'
740	13922	26932	1.06	1.0E-58	M68134.1	NT	Human complement component C5 mRNA, 3' end
1093	14288	27314	1.33	1.0E-58		NT	Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9 (22kD, B22) (NDUFB9), mRNA
1358	14513	27596	1.12	1.0E-58	AW937182.1	EST_HUMAN	EST369252 MAGC resequences, MAGD Homo sapiens cDNA
1358	14513	27597	1.12	1.0E-58	AW937182.1	EST_HUMAN	EST369252 MAGC resequences, MAGD Homo sapiens cDNA
1427	14581	27654	2.8	1.0E-58	AJ238093.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
1697	14849	27835	1.28	1.0E-58	BE466132.1	EST_HUMAN	hy10008.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:3196935 3'
2719	15837	28947	1.01	1.0E-58	AF217514.1	NT	Homo sapiens uncharacterized bone marrow protein BM038 mRNA, complete cds
2863	15977	28087	1.14	1.0E-58	4759169	NT	Homo sapiens steroid regulatory element binding transcription factor 2 (SREBF2) mRNA
2892	15206	28322	1.01	1.0E-58	6174444	NT	Homo sapiens G protein-coupled receptor 89A (GPR89A) mRNA

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3627	16791	29809	0.93	1.0E-58	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
3627	16791	29810	0.93	1.0E-58	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
3814	16974	29977	0.66	1.0E-58	4507628	NT	Homo sapiens transition protein 1 (during histone to protamine replacement) (TNF1) mRNA
5085	18213	31188	7.13	1.0E-58	AI141063.1	EST_HUMAN	oz43h01.x1 Soares NIH/NIHPU_S1 Homo sapiens cDNA clone IMAGE:1078129 3'
6964	19150	32485	1.37	1.0E-58	BE061890.1	EST_HUMAN	RC1-BT0254-280100-015-401 BT0254 Homo sapiens cDNA
7002	20138	33556	0.87	1.0E-58	11422031	NT	Homo sapiens hypodermal protein (LOC51260), mRNA
8305	21387		0.49	1.0E-58	AW973537.1	EST_HUMAN	EST1385537 MAGE resequences, MAGI Homo sapiens cDNA
9070	22149	35695	0.62	1.0E-58	4505314	NT	Homo sapiens myomesin (M-protein) 2 (165KD) (MYOM2), mRNA
9182	22260	35802	0.77	1.0E-58	AV751001.1	EST_HUMAN	AV751001 NPC Homo sapiens cDNA clone NPCACH09 5'
9282	22358	35907	0.64	1.0E-58	AA412397.1	EST_HUMAN	289105.11 Soares, testis NHT Homo sapiens cDNA clone IMAGE:730497 5'
9282	22358	35908	0.64	1.0E-58	AA412397.1	EST_HUMAN	289105.11 Soares, testis NHT Homo sapiens cDNA clone IMAGE:730497 5'
10389	23424	37031	0.65	1.0E-58	11432984	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
12074	25055		2.1	1.0E-58	X63392.1	NT	H. sapiens immunoglobulin kappa light chain variable region L14
12100	25080	38787	2.61	1.0E-58	D61405.1	NT	Human MSI33 gene, exon10
2303	15435	28587	83.38	8.0E-59	4507378	NT	Homo sapiens TATA box binding protein (TBP) mRNA
6979	20207	33635	0.74	8.0E-59	AA382291.1	EST_HUMAN	ESTB5683 Testis Homo sapiens cDNA 5' end
6979	20207	33636	0.74	8.0E-59	AA382291.1	EST_HUMAN	ESTB5683 Testis Homo sapiens cDNA 5' end
8374	21455	34979	1.55	8.0E-59	AI761063.1	EST_HUMAN	wh50408.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2384171 3'
182	16006		1.97	6.0E-59	BF036327.1	EST_HUMAN	801458531F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:3862086 5'
8015	21068	34579	0.62	6.0E-59	AA982431.1	EST_HUMAN	om81a04.s1 NCI CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1553550 3' similar to TR:Q13732 Q13732 SA GENE PRODUCT PRECURSOR.;
8440	21521	35050	0.69	6.0E-59	AI750970.1	EST_HUMAN	cn06h02.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn06h02 random
3197	16372	28379	7.75	5.0E-59	AB07494.1	EST_HUMAN	wf48c11.x1 Soares_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2359836 3'
4780	17915	30601	9.94	5.0E-59	X83497.1	NT	H. sapiens DNA for ZNF80-linked ERV9 long terminal repeat
7129	18555	31470	8.22	5.0E-59	AW162304.1	EST_HUMAN	au68607.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2761228 3' similar to contains element TAR1 repetitive element;
8006	22086	35628	1.03	5.0E-59	11421778	NT	Homo sapiens polymerase (RNA) III (DNA directed) (39kD) (RPC39), mRNA
8906	22946	36532	1.44	5.0E-59	AV782869.1	EST_HUMAN	AV782869 MDS Homo sapiens cDNA clone MDSEIC12 5'
11140	24218	37845	4.54	5.0E-59	11434908	NT	Homo sapiens hypothetical protein (LOC57143), mRNA
816	13995	27050	1.9	4.0E-59	DB0006.1	NT	Human mRNA for KIAA0184 gene, partial cds
1266	14423	27489	0.61	4.0E-59	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products

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1266	14423	27480	0.81	4.0E-59	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
4912	18042	31032	1.14	4.0E-59	4505758	NT	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
4912	18042	31033	1.14	4.0E-59	4505758	NT	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
5654	18948	32130	0.95	4.0E-59	11034810	NT	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA
12498	25988		3.99	4.0E-59	AF057720.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, promoter region and exon 1
10	13248		6.74	3.0E-59	AW965624.1	EST_HUMAN	EST377582 IMAGE sequences, MAGI Homo sapiens cDNA
234	13455	26481	3.88	3.0E-59	7682247	NT	Homo sapiens KIAA0680 gene product (KIAA0680), mRNA
1748	14897	27892	10.81	3.0E-59	4505950	NT	Homo sapiens plasminogen activator, tissue (PLATa) mRNA
1748	14897	27993	10.81	3.0E-59	4505950	NT	Homo sapiens plasminogen activator, tissue (PLATa) mRNA
2169	15333	28469	8.54	3.0E-59	AB029035.1	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
2198	15333	28480	8.54	3.0E-59	AB029035.1	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
3104	16280	28294	0.67	3.0E-59	T18895.1	EST_HUMAN	h020171 Testis 1 Homo sapiens cDNA clone h02017 5' end
3104	16280	28295	0.67	3.0E-59	T18895.1	EST_HUMAN	h020171 Testis 1 Homo sapiens cDNA clone h02017 5' end
3199	16374	28383	4.27	3.0E-59	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3199	16374	28384	4.27	3.0E-59	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3930	17088	30086	1.19	3.0E-59	4508044	NT	Homo sapiens zona pellucida glycoprotein 2 (sperm receptor) (ZP2) mRNA
4908	17942	30929	2.75	3.0E-59	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4965	18094	31071	2.12	3.0E-59	M85981.1	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
6162	18284		1.22	3.0E-59	8924074	NT	Human proteinase converting enzyme (NEC2) gene, exon 2
6350	19520	32877	2.4	3.0E-59	8924074	NT	Homo sapiens hypophthal protein PRO1741 (PRO1741), mRNA
7516	20589	34084	1.85	3.0E-59	5454137	NT	Homo sapiens nuclear receptor co-repressor 1 (NCOR1), mRNA
8116	21198	34718	1.11	3.0E-59	X12555.1	NT	Human mRNA for dbi proto-oncogene
8116	21198	34719	1.11	3.0E-59	X12555.1	NT	Human mRNA for dbi proto-oncogene
10250	23285	36880	1.04	3.0E-59	X70251.1	NT	H. sapiens CKII-alpha gene
10250	23285	36881	1.04	3.0E-59	X70251.1	NT	H. sapiens CKII-alpha gene
12635	25428		11.11	3.0E-59	11417868	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA
6946	20259		0.59	2.0E-59	AA470073.1	EST_HUMAN	298405.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:730377 3'
7216	20081	33494	0.59	2.0E-59	AF135187.1	NT	Homo sapiens interferon-induced protein p78 (MX1) gene, complete cds
9837	22877		4.84	2.0E-59	AA309774.1	EST_HUMAN	EST180633 Jurkat T-cells V Homo sapiens cDNA 5' end
10745	23778		1.34	2.0E-59	BF365554.1	EST_HUMAN	RCO-NT0036-100700-032-407 NT0036 Homo sapiens cDNA
11059	24144	37780	2.19	2.0E-59	AW410696.1	EST_HUMAN	fr67n04.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2861654 5'

Table 4

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11080	24144	37781	2.19	2.0E-59	AW410698.1	EST_HUMAN	fr07h04.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2861654 5'
12373	25286	32118	4.28	2.0E-59	A1631809.1	EST_HUMAN	wa36c12.x1 NCL_CGAP_Kid111 Homo sapiens cDNA clone IMAGE:2300182 3' similar to TR:Q86642
12683	26019	31689	3.87	2.0E-59	L11045.1	NT	Q86542 RTVL-H PROTEIN, contains LTR7.b1 LTR7 repetitive element;
167	13392		5.65	1.0E-59	BE286411.1	EST_HUMAN	Homo sapiens alpha-tubulin mRNA, complete cds
1568	14722	27803	1.04	1.0E-59	T92522.1	EST_HUMAN	801176757F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531927 5'
2883	15803		2.85	1.0E-59	AA748468.1	EST_HUMAN	y025009.11 Stratiogene lung (#837210) Homo sapiens cDNA clone IMAGE:118768 5' similar to SP:S21348
7735	20796	34285	1.14	1.0E-59	AJ130894.1	EST_HUMAN	S21348 HYPOTHETICAL PROTEIN 4 -;
7895	20947	34454	1.3	1.0E-59	BE256814.1	EST_HUMAN	Q13537 MER37 TRANSPORTABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE.;
7895	20947	34455	1.3	1.0E-59	BE256814.1	EST_HUMAN	Homo sapiens mRNA for transcription factor
8585	22727	36296	0.89	1.0E-59	11419630	NT	601111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352692 5'
9804	22844	36421	0.58	1.0E-59	11428949	NT	601111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352692 5'
9804	22844	36422	0.58	1.0E-59	11428949	NT	Homo sapiens zinc finger protein 275 (ZNF275), mRNA
11094	20796	34285	10.98	1.0E-59	AJ130894.1	EST_HUMAN	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
783	13963	27013	1.45	8.0E-60	AW977845.1	EST_HUMAN	Homo sapiens mRNA for transcription factor
1489	14652	27734	3.21	8.0E-60	47597159	NT	EST389849 MAGC resequences, MAGO Homo sapiens cDNA
2241	15374	28502	4.78	8.0E-60	5174656	NT	Homo sapiens small nuclear ribonucleoprotein D3 polypeptide (18kD) (SNRPD3) mRNA
2241	15374	28503	4.76	8.0E-60	5174656	NT	Homo sapiens differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA
6103	19283	32816	1.16	8.0E-60	AB029004.1	NT	Homo sapiens differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA
6633	19792	33181	0.89	8.0E-60	S83182.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
7874	20928	34434	0.89	8.0E-60	11420841	NT	hyaluronan-binding protein-hepatocyte growth factor activator homolog [human, plasma, mRNA, 2408 nt]
8162	21234	34755	3	8.0E-60	X17033.1	NT	Homo sapiens phosphatase cytidylyltransferase 1, choline, beta isoform (PCYT1B), mRNA
9139	22218	35762	2.93	8.0E-60	11428949	NT	Human mRNA for integrin alpha-2 subunit
9671	22633	36202	0.78	8.0E-60	11417118	NT	Homo sapiens S-antigen, retina and pineal gland (arrestin) (SAG), mRNA
8671	22633	36203	0.78	8.0E-60	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10789	23832	37455	0.62	8.0E-60	5453997	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
11071	24146	37783	4.17	8.0E-60	AL163204.2	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
11071	24146	37784	4.17	8.0E-60	AL163204.2	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
773	13954	27004	11.11	7.0E-60	AF055086.1	NT	Homo sapiens chromosome 21 segment HS21C004
774	13954	27004	25.11	7.0E-60	AF055086.1	NT	Homo sapiens chromosome 21 segment HS21C004
838	14016	27071	1.47	7.0E-60	4504634	NT	Homo sapiens MHC class 1 region
							Homo sapiens MHC class 1 region
							Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA

Table 4

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2197	18332	28458	1.82	7.0E-60	AF077188.1	NT	Homo sapiens cullin 4A (CUL4A) mRNA, complete cds
2845	15059	28088	0.96	7.0E-60	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
4295	17438	30425	2.4	7.0E-60	4506488	NT	Homo sapiens ornithine decarboxylase 1 (ODC1) mRNA
4698	17833	30818	0.91	7.0E-60	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
9607	22662	36235	4.21	7.0E-60	H58041.1	EST_HUMAN	Y12704.1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTR5 repetitive element;
11648	24725	38417	1.73	7.0E-60	H58041.1	EST_HUMAN	Y12704.1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTR5 repetitive element;
2248	15381	28509	1.16	6.0E-60	BE984974.2	EST_HUMAN	601658751R1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3885069 3'
8632	21712		8.04	6.0E-60	H52456.1	EST_HUMAN	Y978108.1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:201863 5' similar to contains OFFR repetitive element;
86	13321	26348	1.06	5.0E-60	AI807917.1	EST_HUMAN	W5207.1 Scores_NFL_T_CGC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
86	13321	26349	1.06	5.0E-60	AI807917.1	EST_HUMAN	W5207.1 Scores_NFL_T_CGC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
2308	15440	28574	1.83	4.0E-60	AW 503208.1	EST_HUMAN	U1HF-BN0-ak-g-07-0-UIJ.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5'
2308	15440	28575	1.83	4.0E-60	AW 503208.1	EST_HUMAN	U1HF-BN0-ak-g-07-0-UIJ.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5'
3037	16213		1.45	4.0E-60	AA288037.1	EST_HUMAN	EST11498 Uterus Homo sapiens cDNA 5' end similar to similar to retrovirus-related pol
7508	20562	34056	0.78	4.0E-60	BF198088.1	EST_HUMAN	tr8105.x1 NCI CGAP_Kid1 Homo sapiens cDNA clone IMAGE:3134913 3' similar to SW:RHOP_MOUSE
8326	22402		0.65	4.0E-60	AL163278.2	NT	Q61095 GTP-RHO BINDING PROTEIN 1;
1907	15050	26161	4.98	3.0E-60	BE662611.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C078
1907	15050	26162	4.98	3.0E-60	BE662611.1	EST_HUMAN	601336446F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3680385 5'
1918	15061		2.81	3.0E-60	6031180	NT	Homo sapiens prohibitin (PHB) mRNA
4579	17716	30696	2.76	3.0E-60	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
5494	18693	31709	0.69	3.0E-60	BF366143.1	EST_HUMAN	QV44NN1149-250800-423-01 NN1149 Homo sapiens cDNA
5757	18949	32251	2.21	3.0E-60	AW 836198.1	EST_HUMAN	RC3-LT0023-200100-012-01 LT0023 Homo sapiens cDNA
7083	18520	31513	1.07	3.0E-60	A1792814.1	EST_HUMAN	d60h11.y6 NCI CGAP_Kid8 Homo sapiens cDNA clone IMAGE:1634053 5' similar to SW:UDP_MOUSE
8597	21678	35215	4.59	3.0E-60	5174844	NT	P52624 URIDINE PHOSPHORYLASE;
8597	21678	35218	4.59	3.0E-60	5174844	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
8783	21862	35405	0.6	3.0E-60	AI040235.1	EST_HUMAN	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
8940	22019	35560	3.84	3.0E-60	5174844	NT	SW:FORM_MOUSE Q05860 FORMIN;
13053	26088		1.55	3.0E-60	AA485288.1	EST_HUMAN	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
						NT	ab07704.1 Stratiogene lung (#637210) Homo sapiens cDNA clone IMAGE:840161 5' similar to contains LTR10.11 LTR10 repetitive element;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
31	13269	26273	1.7	2.0E-60	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
1455	14009	27688	3.99	2.0E-60	Z11694.1	NT	H. sapiens 41kDa protein kinase related to rat ERK2
1759	14908	28001	2.2	2.0E-60	M24603.1	NT	Human bcr protein mRNA, 5' end
3680	16832	28843	0.78	2.0E-60	4757807	NT	Homo sapiens v-traf murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
4025	17181	30180	0.73	2.0E-60	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
6430	19598	32864	0.85	2.0E-60	AJ781952.1	EST_HUMAN	repetitive element
6821	19781	33169	1.26	2.0E-60	AF004877.1	NT	Homo sapiens pro-alpha 2(I) collagen (COL1A2) gene, complete cds
6855	20008	33418	1.08	2.0E-60	AF157478.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
6889	18508	31524	2.15	2.0E-60	4503044	NT	Homo sapiens corticotroph releasing hormone receptor 2 (CRHR2) mRNA
6889	18508	31524	2.15	2.0E-60	4503044	NT	Homo sapiens corticotroph releasing hormone receptor 2 (CRHR2) mRNA
7259	20342	33783	8.18	2.0E-60	AA311159.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' end similar to prothymosin, alpha
7259	20342	33783	8.18	2.0E-60	AA311159.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' end similar to prothymosin, alpha
7810	20865	34789	0.9	2.0E-60	BF512808.1	EST_HUMAN	UHH-BW1-anti-c-02-0-JL.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071210 3'
8194	21278	34789	1.33	2.0E-60	X85597.1	EST_HUMAN	HS15BEST human adult testis Homo sapiens cDNA clone CAM.1EST15
9068	22147	36694	3.12	2.0E-60	L36033.1	NT	Human pre-B cell stimulating factor homologue (SDF1b) mRNA, complete cds
10183	23220	36813	1.83	2.0E-60	11991659	NT	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (SEMA6A), mRNA
10183	23220	36814	1.83	2.0E-60	11991659	NT	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (SEMA6A), mRNA
11769	23945	37572	1.7	2.0E-60	11434729	NT	Homo sapiens ribosomal protein S6 kinase, 80kD, polypeptide 5 (RPS8KA5), mRNA
12672	25448		2.38	2.0E-60	11418192	NT	Homo sapiens non-histone chromosome protein 2 (S. cerevisiae)-like 1 (NHIP2L1), mRNA
12829	25985		1.47	2.0E-60	AF088757.1	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
12848	25684		1.5	2.0E-60	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
535	13728	26752	1.02	1.0E-60	BE178598.1	EST_HUMAN	PM3-HT0605-270200-001-e08 HT0605 Homo sapiens cDNA
4011	17168	30176	1.08	1.0E-60	AU143398.1	EST_HUMAN	AU143398 Y79AA1 Homo sapiens cDNA clone Y79AA1001854 5'
5070	18198	31172	2.57	1.0E-60	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
8134	21210	34737	1.39	1.0E-60	BE064410.1	EST_HUMAN	RC4-BT0311-141189-011-h08 BT0311 Homo sapiens cDNA
8855	22034		2.84	1.0E-60	AA244041.1	EST_HUMAN	nc04et12.1 NCI_CGAP_P71 Homo sapiens cDNA clone IMAGE:1007182 similar to contains L1.t1 L1 repetitive element
8882	22061	35601	1.35	1.0E-60	AV754081.1	EST_HUMAN	AV754081 TP Homo sapiens cDNA clone TPGAED06 5'
12606	26078		1.49	1.0E-60	AJ262313.1	NT	Homo sapiens genomic hybrid Phaeus box
1123	14288	27343	8.4	9.0E-61	AU119344.1	EST_HUMAN	AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 5'

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Table 4

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8908	21987	35526	0.63	9.0E-61	4885546	NT	Homo sapiens PHD finger protein 2 (PHF2) mRNA
8908	21987	35527	0.63	9.0E-61	4885546	NT	Homo sapiens PHD finger protein 2 (PHF2) mRNA
2735	15852	28965	1.41	8.0E-61	AW006478.1	EST_HUMAN	w05b10.x1 NCL_CGAP_Cc3 Homo sapiens cDNA clone IMAGE:2508555 3'
2735	15852	28966	1.41	8.0E-61	AW006478.1	EST_HUMAN	w05b10.x1 NCL_CGAP_Cc3 Homo sapiens cDNA clone IMAGE:2508555 3'
3018	16192		2.63	8.0E-61	X57147.1	NT	Human endogenous retrovirus phiE.1 (ERV9)
8079	21101	34679	1.03	8.0E-61	AA583988.1	EST_HUMAN	mi58g06.s1 NCL_CGAP_Lar1 Homo sapiens cDNA clone IMAGE:1088218 3'
130	13357	26369	0.79	7.0E-61	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
130	13357	26390	0.79	7.0E-61	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
276	13484	26524	3.08	6.0E-61	BE409310.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
834	14012	27088	6.49	6.0E-61	BE409310.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
1352	14507	27579	12.72	6.0E-61	AF118860.1	NT	Homo sapiens PRO2014 mRNA, complete cds
1659	14811	27896	1.04	6.0E-61	BE257400.1	EST_HUMAN	601109238F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350145 5'
1679	14831	27916	2.91	6.0E-61	AA599033.1	EST_HUMAN	mi66h00.s1 NCL_CGAP_Lar1 Homo sapiens cDNA clone IMAGE:1088897 3'
3381	16553	29687	8.16	6.0E-61	AU130689.1	EST_HUMAN	AU130689 NT2RP3 Homo sapiens cDNA clone NT2RP3001283 5'
6155	19331	32877	2.96	6.0E-61	S79249.1	NT	Ig-beta/B28=CD78b (alternatively spliced) [human, B cells, mRNA Partial, 375 nt]
7497	20572	34045	1.49	6.0E-61	U24498.1	NT	Human autosomal dominant polycystic kidney disease protein 1 (PKD1) gene
7795	20851	34343	1.85	6.0E-61	AF035737.1	NT	Human sapiens general transcription factor 2-1 (GTF2) mRNA, complete cds
12864	14012	27088	1.86	6.0E-61	U07000.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
13157	25752	31925	1.42	6.0E-61		NT	Human breakpoint cluster region (BCR) gene, complete cds
226	13448	26476	2.54	5.0E-61	8822890	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
228	13448	26477	2.64	5.0E-61	8822890	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
370	13579	26612	0.7	6.0E-61	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1713	14864	27953	2.84	5.0E-61	4506008	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
3101	16277	26281	2.19	5.0E-61	AL163279.2	NT	Homo sapiens chromosome 21 segment HS21C079
3288	16442	29482	1.82	5.0E-61	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease neurin-II, Alzheimer disease) (APP), mRNA
4090	17245		2.22	5.0E-61	AJ228041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/8
5118	13579	26612	0.75	5.0E-61	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1788	14947	28039	1.94	4.0E-61	AU140307.1	EST_HUMAN	AU140307 PLACE2 Homo sapiens cDNA clone PLACE2000302 5'
5836	19122	32435	0.71	4.0E-61	7691637	NT	Homo sapiens DKFZP566B023 protein (DKFZP566B023), mRNA
12349	28252		9.47	4.0E-61	AV731140.1	EST_HUMAN	AV731140 HTF Homo sapiens cDNA clone HTFAR801 5'
8616	21698	35234	0.7	3.0E-61	AF150190.1	EST_HUMAN	AF150190 Human mRNA from cd34+ stem cells Homo sapiens cDNA clone CBDA3604
511	13705	26733	1.8	2.0E-61	8922828	NT	Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA
1239	14398	27480	5.33	2.0E-61	BE188410.1	EST_HUMAN	QV3-HT0513-060400-147-401 HT0513 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1239	14398	27481	6.33	2.0E-61	BE168410.1	EST_HUMAN	QV3-HT0513-060400-147-401 HT0513 Homo sapiens cDNA
1629	14851	27838	1.39	2.0E-61	NS3039.1	EST_HUMAN	w63d11.31 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:246453 3' similar to
2708	15824		1.72	2.0E-61	NS9397.1	EST_HUMAN	pbl 25444 60S RIBOSOMAL PROTEIN L35A (HUMAN); y03f11.1 Soares melanocyte 2Nblm Homo sapiens cDNA clone IMAGE:270189 5'
6556	19718	33094	0.88	2.0E-61	11426168	NT	Homo sapiens ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein
9217	22295	35839	1.87	2.0E-61	AV694317.1	EST_HUMAN	1A (110H118d) (ATP8N1A), mRNA
9762	22700		0.88	2.0E-61	AB011108.1	NT	AV694317 GKG Homo sapiens cDNA clone GKCELG08 5'
10126	23164	36763	1.34	2.0E-61	AW500258.1	EST_HUMAN	Homo sapiens mRNA for KIAA0538 protein, partial cds
10456	23491	37101	2.84	2.0E-61	11421778	NT	U14HF-BNO-ekd4-12-O-U1.1 NIH_MGC 50 Homo sapiens cDNA clone IMAGE:3076774 5'
11123	24105		4	2.0E-61	11419729	NT	Homo sapiens polymerase (RNA) III (DNA directed) (39kD) (RPC39), mRNA
13144	25744	31950	1.45	2.0E-61	AW995328.1	EST_HUMAN	Homo sapiens ribosomal protein L44 (RPL44), mRNA
448	13644		1.37	1.0E-61	AL163203.2	NT	QY0-BN0042-170300-162-F10 BN0042 Homo sapiens cDNA
764	13973	27026	1.26	1.0E-61	6453929	NT	Homo sapiens chromosome 21 segment HS21C003
1430	14584	27858	1.07	1.0E-61	AL163203.2	NT	Homo sapiens origin recognition complex, subunit 2 (yeast homolog-like) (ORC2L), mRNA
1809	14958		1.02	1.0E-61	U32657.1	NT	Homo sapiens chromosome 21 segment HS21C003
1806	15049	28160	4.43	1.0E-61	6005983	NT	Homo sapiens polymorphic trinucleotide repeat in X-linked retinitis pigmentosa (RP3) gene region
2270	15403	28531	1.54	1.0E-61	AW827281.1	EST_HUMAN	Human polymorphic trinucleotide repeat in X-linked retinitis pigmentosa (RP3) gene region
2806	16075	28093	0.98	1.0E-61	BE386383.1	EST_HUMAN	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A), mRNA
3463	16630	28650	0.85	1.0E-61	7802318	NT	znt11b09.y1 NCI_CGAP_LJ5 Homo sapiens cDNA clone IMAGE:2683389 5' similar to contains element
3826	16886	28689	1.48	1.0E-61	BE174455.1	EST_HUMAN	MSR1 repetitive element;
4374	17517	30497	1.05	1.0E-61	M68840.1	NT	601273513F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3614687 5'
4561	17699	30680	0.95	1.0E-61	4759249	NT	Homo sapiens KIAA0806 gene product (KIAA0806), mRNA
4561	17699	30681	0.95	1.0E-61	4759249	NT	QV2-HT0577-140300-077-g06 HT0577 Homo sapiens cDNA
4881	18110	31086	9.55	1.0E-61	AW238181.1	EST_HUMAN	Human monoamine oxidase A (MAOA) mRNA, complete cds
4881	18110	31087	9.55	1.0E-61	AW238181.1	EST_HUMAN	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
5075	18203	31175	0.62	1.0E-61	AL163210.2	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
5509	18708	31728	0.71	1.0E-61	M76423.1	NT	U14-BW0-ekb-b-08-O-U1.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2732871 3'
5806	18996	32301	1.07	1.0E-61	7852303	NT	U14-BW0-ekb-b-08-O-U1.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2732871 3'
6004	19189	32508	1.32	1.0E-61	11416891	NT	Homo sapiens chromosome 21 segment HS21C010
7041	20094	33510	8.92	1.0E-61	M50135.1	NT	Hl.sapiens carbonic anhydrase VII (CA VII) gene, exons 4,5,6, and 7, and complete cds
7240	20324	33798	0.77	1.0E-61	4759171	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
7341	20421	33863	1.39	1.0E-61	8923130	NT	Homo sapiens survival of motor neuron 1, telomeric (SMN1), mRNA
							Human P40 T-cell and mast cell growth factor (HP40) gene, complete cds
							Homo sapiens SC35-interacting protein 1 (SRP129), mRNA
							Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7341	20421	33884	1.39	1.0E-61	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8326	21408	34635	2.69	1.0E-61	11034840	NT	Homo sapiens growth hormone releasing hormone (GHRH), mRNA
8508	21589	35123	3.34	1.0E-61	AF224689.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
9482	22539	36193	2.78	1.0E-61	AW889726.1	EST_HUMAN	MRO-BN0070-040400-010-101 BN0070 Homo sapiens cDNA
9557	22622	36193	0.58	1.0E-61	11416280	NT	Homo sapiens cadherin 18 (CDH18), mRNA
10235	23270	36881	4.8	1.0E-61	11428892	NT	Homo sapiens KIAA0971 protein (KIAA0971), mRNA
10871	23956	37585	5.61	1.0E-61	11425578	NT	Homo sapiens actinin, alpha 4 (ACTN4), mRNA
11178	24247	37880	1.72	1.0E-61	AB044550.1	NT	Homo sapiens P/OKd.19 mRNA for ubiquitin-conjugating enzyme E2, complete cds
11325	24388	38033	1.44	1.0E-61	AB007830.1	NT	Homo sapiens mRNA for CSR2, complete cds
12242	26043	31677	21.57	1.0E-61	AB011398.1	NT	Homo sapiens gene for AF-8, complete cds
12286	26031	31677	4	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12288	26031	31678	4	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
13028	25676	31859	10.94	1.0E-61	11418127	NT	Homo sapiens GTP binding protein 1 (GTFBP1), mRNA
10565	23600	37206	1.08	9.0E-62	BC084386.1	EST_HUMAN	RC4-BT0310-110300-016-110 BT0310 Homo sapiens cDNA
4673	17808	30798	0.85	8.0E-62	AA830420.1	EST_HUMAN	cc86h11.1 NCI CGAP GCB1 Homo sapiens cDNA clone IMAGE:1354725 3' similar to SW:POL_MLYRK
1131	14296	27351	1.12	7.0E-62	AV714334.1	EST_HUMAN	P31795 POL POLYPYRROLINE ;
3595	16759	29775	0.84	7.0E-62	P17480	SWISSPROT	AV714334 DCB Homo sapiens cDNA clone DCBAMA08 5'
6038	19221	32544	0.97	7.0E-62	11427985	NT	NUCLEAR TRANSCRIPTION FACTOR 1 (UPSTREAM BINDING FACTOR 1) (UBF-1)
11632	24712	38403	4.05	7.0E-62	AL208681.1	EST_HUMAN	(AUTOANTIGEN NOR-90)
3063	16239	32544	1.55	6.0E-62	U09410.1	NT	Homo sapiens hypothetical protein (FLJ20281), mRNA
3471	16638	34351	5.37	6.0E-62	11418255	NT	qg52ae04.x1 Soares, testis NHT Homo sapiens cDNA clone IMAGE:1839150 3' similar to TRC015103
7803	20859	34352	3.47	6.0E-62	AI762801.1	EST_HUMAN	O15103 HYPOTHETICAL 27.3 KD PROTEIN. ;
7803	20859	34352	3.47	6.0E-62	AI762801.1	EST_HUMAN	Human zinc finger protein ZNF131 mRNA, partial cds
8277	21359	35063	0.66	6.0E-62	AW501124.1	EST_HUMAN	Homo sapiens CGI-58 protein (CGI-58), mRNA
8452	21533	36189	1.52	6.0E-62	11431139	NT	wf04402.x1 NCI CGAP CLL1 Homo sapiens cDNA clone IMAGE:2389251 3'
8554	22619	36189	3.87	6.0E-62	AW814393.1	EST_HUMAN	wf04402.x1 NCI CGAP CLL1 Homo sapiens cDNA clone IMAGE:2389251 3'
429	13624	26884	1.46	5.0E-62	AB50528.1	EST_HUMAN	UHF-BPop-att-4-09-0-UL1 NIH MGC 51 Homo sapiens cDNA clone IMAGE:3072833 5'
2478	15605	28729	5.16	6.0E-62	AJ271735.1	NT	Homo sapiens CGI-18 protein (LOC51008), mRNA
2478	15605	28730	5.16	5.0E-62	AJ271735.1	NT	MIR3-ST0203-130100-025-e09 ST0203 Homo sapiens cDNA
							wf51e07.x1 NCI CGAP L128 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN
							Q08379 GOLGIN-95, contains element MIER22 repetitive element ;
							Homo sapiens Xq pseudocarbosomal region; segment 1/2
							Homo sapiens Xq pseudocarbosomal region; segment 1/2

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3506	16673	29883	2.55	5.0E-62	4506758	NT	Homo sapiens pyrenodine receptor 3 (RYR3) mRNA
4447	17587	30568	1.75	5.0E-62	AA431083.1	EST_HUMAN	z078608.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:782344 3' similar to SW:NRDC_RAT
8746	21825	35362	0.74	5.0E-62	4506758	NT	P47245 NARDILYSIN;
9717	22782	36363	12.91	5.0E-62	AW410687.1	EST_HUMAN	Homo sapiens pyrenodine receptor 3 (RYR3) mRNA
11543	24589	38274	2.38	5.0E-62	11425574	NT	h07609.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2861616 5'
11543	24589	38275	2.38	5.0E-62	11425574	NT	Homo sapiens muscle specific gene (M9), mRNA
863	14040	27102	2.17	4.0E-62	AW161479.1	EST_HUMAN	Homo sapiens muscle specific gene (M9), mRNA
863	14040	27103	2.17	4.0E-62	AW161479.1	EST_HUMAN	ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
864	14040	27102	1.32	4.0E-62	AW161479.1	EST_HUMAN	au71403.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104
864	14040	27103	1.32	4.0E-62	AW161479.1	EST_HUMAN	au71403.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104
2529	16654	28778	1.9	4.0E-62	AJ827900.1	EST_HUMAN	ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
2529	16654	28779	1.9	4.0E-62	AJ827900.1	EST_HUMAN	ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
3488	16654		9.09	4.0E-62	4567887	NT	gb:X57138_mel1 HISTONE H2B.2 (HUMAN);
6046	19229	32553	1.71	4.0E-62	4506978	NT	wf12608.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350359 3' similar to
6426	19594	32960	2.81	4.0E-62	11420854	NT	gb:X57138_mel1 HISTONE H2B.2 (HUMAN);
7322	20404	33868	1.75	4.0E-62	11421041	NT	Homo sapiens keratin 18 (KRT18) mRNA
7812	20867	34361	2.21	4.0E-62	7657057	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA
7812	20867	34362	2.21	4.0E-62	7657057	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase 2 (PRPS2), mRNA
8364	21445	34968	1.12	4.0E-62	11428973	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
9047	22126	35670	6.42	4.0E-62	AB033089.1	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
11263	24332	37979	2.62	4.0E-62	Z78766.1	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1), mRNA
11263	24332	37974	2.62	4.0E-62	Z78766.1	NT	Homo sapiens mRNA for KIAA1263 protein, partial cds
11500	24558	38233	63.7	4.0E-62	S70394.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC9pA16D3
12269	25202	38360	1.18	4.0E-62	11418086	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC9pA16D3
12497	25369		1.65	4.0E-62	11418192	NT	thyroid-stimulating hormone alpha subunit (human, Genomic, 288 nt, segment 3 of 4)
							Homo sapiens putative nuclear protein (HNF1FB2122), mRNA
							Homo sapiens non-histone chromosome protein 2 (S. cerevisiae)-like 1 (NHP2L1), mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12946	25657	31955	1.66	4.0E-62	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
13004	25653	31952	6.88	4.0E-62	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
13004	25653	31953	6.86	4.0E-62	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
13069	25693	31955	2.16	4.0E-62	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
76	13312	26338	0.59	3.0E-62	4557794	NT	Homo sapiens neurofibromin 2 (bilateral acoustic neuroma) (NF2) mRNA
3111	16287	29301	1.13	3.0E-62	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3111	16287	29302	1.13	3.0E-62	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3789	16950	29956	4.19	3.0E-62	X52858.1	NT	Human cyclophilin-related processed pseudogene
8737	21816	35351	3.74	3.0E-62	A1632793.1	EST_HUMAN	W3304.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:228903 3' similar to contains TH-R12
1259	14417	27482	2.71	2.0E-62	AL163284.2	NT	TH-R repetitive element
8974	22053	35595	5.59	2.0E-62	BF329911.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
8974	22053	35596	5.59	2.0E-62	BF329911.1	EST_HUMAN	RCQ-BN0284-300500-031-e05 BN0284 Homo sapiens cDNA
10376	23411		3.71	2.0E-62	AF224669.1	NT	RCQ-BN0284-300500-031-e05 BN0284 Homo sapiens cDNA
11988	24973		8.83	2.0E-62	BF330676.1	EST_HUMAN	Homo sapiens mammoside, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
1069	14235	27294	1.14	1.0E-62	AF248540.1	NT	(UBE2D3) genes, complete cds
1575	14728	27809	18.41	1.0E-62	L78810.1	NT	QV4-BT0257-081199-017-e03 BT0257 Homo sapiens cDNA
1842	14988	28088	1.64	1.0E-62	AA625207.1	EST_HUMAN	Homo sapiens Intersectin 2 (SH3D1B) mRNA, complete cds
2081	16167	28176	1.22	1.0E-62	AL039044.1	EST_HUMAN	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
4948	17784	30787	1.84	1.0E-62	8023201	NT	Homo sapiens a770e11.1 Soares_NhhIMPu_S1 Homo sapiens cDNA clone IMAGE:1047404 5' similar to WP-K01H12.1
6418	19587	32850	2.02	1.0E-62	U52111.2	NT	CE03463
7284	20367	33820	1.07	1.0E-62	AA490060.1	EST_HUMAN	DKFZp566F104_r1 568 (synonym: hrfid2) Homo sapiens cDNA clone DKFZp566F104 5'
7295	20377	33834	2.69	1.0E-62	AA722878.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ20212 (FLJ20212), mRNA
7295	20377	33835	2.69	1.0E-62	AA722878.1	EST_HUMAN	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Cca2+/Cadm100-dependent protein kinase 1 (CAMK1), creatine transporter (CRTTR), CDM protein (CDM), adrenoleukodystrophy protein >
8957	22036	35577	0.54	1.0E-62	AA280050.1	EST_HUMAN	ab05c02.s1 Strategene fetal retina 837202 Homo sapiens cDNA clone IMAGE:839906 3'
9258	22335	35885	1.65	1.0E-62	7662289	NT	zg89f10.s1 Soares_fetal_heart_NhhHH19W Homo sapiens cDNA clone IMAGE:409771 3'
9258	22335	35886	1.65	1.0E-62	7662289	NT	zg89f10.s1 Soares_fetal_heart_NhhHH19W Homo sapiens cDNA clone IMAGE:409771 3'
9302	22378	35928	1.92	1.0E-62	X15533.1	NT	zg89f10.s1 Soares_fetal_heart_NhhHH19W Homo sapiens cDNA clone IMAGE:409771 3'
9302	22378	35929	1.92	1.0E-62	X15533.1	NT	zg89f10.s1 Soares_fetal_heart_NhhHH19W Homo sapiens cDNA clone IMAGE:409771 3'
9757	22895	36263	3.03	1.0E-62	AA465170.1	EST_HUMAN	zs83607.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:705060 5'
					7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
					7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
					X15533.1	NT	Homo sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
					X15533.1	NT	H. sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
					AA465170.1	EST_HUMAN	aa33d08.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:315055 3'

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11648	24727	38419	2.28	1.0E-62	Z78698.1	NT	H.sapiens flow-sorted chromosome 6 HindIII fragment, SO8pA14D8
12809	25540		4.63	1.0E-62	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
13042	25894	31982	3.15	1.0E-62	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
348	13559	26587	2.27	9.0E-63	AW816405.1	EST_HUMAN	QV4-ST0234-181169-037-405 ST0234 Homo sapiens cDNA
2421	15580		2.17	9.0E-63	C18159.1	EST_HUMAN	C18159 Human placenta cDNA (TFJwara) Homo sapiens cDNA clone GEN-359C10 5'
4152	17304	30297	8.77	9.0E-63	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
4152	17304	30288	8.77	9.0E-63	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
5358	18494	39824	4.69	9.0E-63	11418185	NT	Homo sapiens acetylase 2, mitochondrial (AC02), mRNA
5582	18777	31822	1.44	9.0E-63	Y15056.1	NT	Homo sapiens mRNA for P18 kinase
7332	20413	33875	3.78	9.0E-63	11426985	NT	Homo sapiens nucleoporin 88kD (NUP88), mRNA
8009	21059	34571	1.77	9.0E-63	4885544	NT	Homo sapiens pyruvate dehydrogenase kinase, isoenzyme 3 (PDK3) mRNA
8521	21802	35139	1.18	9.0E-63	11421160	NT	Homo sapiens Ras association (RafGDS)(RAF-6) domain family 2 (RASSF2), mRNA
11286	24362	38003	1.3	9.0E-63	BF202408.1	EST_HUMAN	601865828F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4098487 5'
2420	15549	28677	3.05	8.0E-63	4557734	NT	Homo sapiens monomelic acidase A (MAOA), nuclear gene encoding mitochondrial protein, mRNA
2446	15574	28703	2.58	8.0E-63	5031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
3550	16715	29727	4.26	8.0E-63	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
3550	16715	29728	4.26	8.0E-63	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
4391	17524	30505	4.36	8.0E-63	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C088
952	14125		3.38	7.0E-63	AB72137.1	EST_HUMAN	wm55g11.x1 NCL_CGAP_U2 Homo sapiens cDNA clone IMAGE:2439908 3'
5455	18655		70.59	6.0E-63	AA420803.1	EST_HUMAN	trc3102.f1 NCL_CGAP_Pt1 Homo sapiens cDNA clone IMAGE:745947 similar to gb:Y00361 60S
9075	22154	35598	0.82	5.0E-63	11528464	NT	RIBOSOMAL PROTEIN (HUMAN);
3398	16598	29584	0.88	4.0E-63	AL163278.2	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
3910	17059	30066	1.06	4.0E-63	AB014607.1	NT	Homo sapiens chromosome 21 segment HS21C078
3910	17059	30067	1.06	4.0E-63	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
6575	19737	33116	2.6	4.0E-63	AW750372.1	EST_HUMAN	Homo sapiens mRNA for KIAA0707 protein, partial cds
6575	19737	33117	2.6	4.0E-63	AW750372.1	EST_HUMAN	CM9-BT0595-180100-072-e08 BT0595 Homo sapiens cDNA
11397	24458	38121	2.02	4.0E-63	AW134709.1	EST_HUMAN	CM9-BT0595-180100-072-e09 BT0595 Homo sapiens cDNA
11397	24458	38122	2.02	4.0E-63	AW134709.1	EST_HUMAN	U1-H-B1-ctg-e-02-Q.U1.s1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'
1989	15131	28235	15.19	3.0E-63	AB018280.1	NT	U1-H-B1-ctg-e-02-Q.U1.s1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'
2840	15954	23061	1.49	3.0E-63	J00310.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
2882	14425	27493	11.84	3.0E-63	6005963	NT	Human Met-IRNA-1 gene 1
6903	19763	33151	33.93	3.0E-63	11545810	NT	Homo sapiens zinc finger protein 144 (Maf-18) (ZNF144), mRNA
							Homo sapiens hepatocellular carcinoma antigen gene 520 (LOC63828), mRNA

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9907	22947	36533	0.83	3.0E-63	BE376158.1	EST_HUMAN	G01485655F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3888253 5'
9907	22947	36534	0.83	3.0E-63	BE376158.1	EST_HUMAN	G01485655F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3888253 5'
106	13419	28449	1.60	2.0E-63	U07804.1	NT	Human DNA topoisomerase I mRNA, partial cds
203	13426	28457	1.65	2.0E-63	4885228	NT	Homo sapiens eyes absent (Drosophila) homolog 2 (EYA2), mRNA
510	13704		1.19	2.0E-63	4557624	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.840) (GLCLC) mRNA
849	14027	27087	3.07	2.0E-63	7657042	NT	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
1597	14760	27834	1.54	2.0E-63	AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1597	14760	27835	1.54	2.0E-63	AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1806	14955	28049	2.02	2.0E-63	BE410739.1	EST_HUMAN	G01307627F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3836103 5'
2146	15282	28407	1.05	2.0E-63	A863981.1	EST_HUMAN	wf4402.x1 NCL_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406803 3' similar to gbtM57609 GLI3 PROTEIN (HUMAN);
3225	16309	29411	1.94	2.0E-63	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease resistant, Alzheimer disease) (APP), mRNA
3357	16529	28544	2.4	2.0E-63	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
4014	17171	30179	3.19	2.0E-63	338891.1	NT	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
4988	18117	31096	1.28	2.0E-63	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
5378	25902	31447	0.85	2.0E-63	11419429	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
6005	19190	32509	2.41	2.0E-63	BF373541.1	EST_HUMAN	QV1-FT0170-040700-265-c05 FT0170 Homo sapiens cDNA
6005	19190	32510	2.41	2.0E-63	BF373541.1	EST_HUMAN	QV1-FT0170-040700-265-c05 FT0170 Homo sapiens cDNA
6315	19487	32842	1.07	2.0E-63	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
6315	19487	32843	1.07	2.0E-63	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
							Human germline T-cell receptor beta chain Dopamine-beta-hydroxylase-like, TRY1, TRY2, TRY3, TCRBV27S1P, TCRBV22S1A2N1T, TCRBV9S1A1T, TCRBV7S1A1N2T, TCRBV6S1A1T, TCRBV13S3, TCRBV6S7P, TCRBV7S3A2T, TCRBV13S2A1T, TCRBV9S2A2P1, TCRBV7S2A1N4T, TCRBV13S913S2>
6841	19894	33403	1.43	2.0E-63	U68059.1	NT	Homo sapiens MIST mRNA, partial cds
6887	20039	33448	0.72	2.0E-63	AB032360.1	NT	Homo sapiens MIST mRNA, partial cds
6887	20039	33449	0.72	2.0E-63	AB032360.1	NT	Homo sapiens MIST mRNA, partial cds
7222	20086	33502	1.72	2.0E-63	8910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56934), mRNA
7222	20086	33503	1.72	2.0E-63	8910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56934), mRNA
7957	21007	34517	0.96	2.0E-63	AB04844.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
8730	21810	35346	4.29	2.0E-63	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9254	22331	35879	0.94	2.0E-63	11420849	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA
9254	22331	35880	0.94	2.0E-63	11420849	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA
10143	22181	36778	1.2	2.0E-63	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
10985	24004	37639	10.73	2.0E-63	N78945.1	EST_HUMAN	zb18b03.s1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:302385 3' similar to gb:U7208.40S RIBOSOMAL PROTEIN S4 (HUMAN);
11012	24031	37728	2.89	2.0E-63	AF099810.1	NT	Homo sapiens neuractin III-alpha gene, partial cds
11012	24031	37729	2.89	2.0E-63	AF099810.1	NT	Homo sapiens neuractin III-alpha gene, partial cds
12880	25628	31789	3.64	2.0E-63	11418185	NT	Homo sapiens aconitase 2, mitochondrial (AC02), mRNA
13101	25717	31940	1.19	2.0E-63	11418167	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1I subunit (CACNA1I), mRNA
13172	25760	31930	1.37	2.0E-63	AB011398.1	NT	Homo sapiens gene for AF-6, complete cds
786	13965	27016	1.55	1.0E-63	7106448	NT	Mus musculus wingless-related MMTV integration site 3A (Wnt3a), mRNA
786	13965	27017	1.55	1.0E-63	7106448	NT	Mus musculus wingless-related MMTV integration site 3A (Wnt3a), mRNA
4461	17601	30579	3.31	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-znd11
4461	17601	30580	3.31	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-znd11
5468	18608	31647	1.73	1.0E-63	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 22
5990	19078	32388	1.38	1.0E-63	AW582286.1	EST_HUMAN	QV0-ST0215-080100-083-b09 ST0215 Homo sapiens cDNA
6521	19688	33058	0.68	1.0E-63	AW451950.1	EST_HUMAN	U1-H-B18-alt-h-02-0-U1.s1 NC1 CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068763 3'
6521	19688	33059	0.68	1.0E-63	AW451950.1	EST_HUMAN	U1-H-B18-alt-h-02-0-U1.s1 NC1 CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068763 3'
8668	21748		2.97	1.0E-63	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
13121	26047		8.88	1.0E-63	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
6089	19270	32598	0.61	9.0E-64	AW401433.1	EST_HUMAN	U1-HF-BKO-eas-b-08-0-U1.r1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3053153 5'
8051	21134	34654	5.57	9.0E-64	A478186.1	EST_HUMAN	hm50607.x1 NC1 CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2161626 3'
1071	14237		3.45	8.0E-64	BE280768.1	EST_HUMAN	601155232F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139038 5'
6268	19442	32791	3.51	8.0E-64	BE885755.1	EST_HUMAN	601508958F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3910336 5'
12187	25148		2.79	8.0E-64	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12243	25185		3.68	8.0E-64	T60651.1	EST_HUMAN	y088b02.r1 Stratagene Lung (#837210) Homo sapiens cDNA clone IMAGE:79179 5'
3918	16782		0.74	7.0E-64	BE394321.1	EST_HUMAN	601311455F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3633204 5'
4854	17987	30974	5.34	7.0E-64	4507490	NT	Homo sapiens thimet oligopeptidase 1 (THOP1) mRNA
4854	17987	30975	5.34	7.0E-64	4507490	NT	Homo sapiens thimet oligopeptidase 1 (THOP1) mRNA
10239	23274	30865	2.02	7.0E-64	Y07948.1	NT	Homo sapiens EWS, gar22, np22 and bam22 genes
1760	14908	28002	6.73	6.0E-64	AI651992.1	EST_HUMAN	wb51e07.x1 NC1 CGAP_GC6 Homo sapiens cDNA clone IMAGE:2309220 3' similar to gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
1760	14908	28003	5.73	6.0E-64	AI651992.1	EST_HUMAN	wb51e07.x1 NC1 CGAP_GC6 Homo sapiens cDNA clone IMAGE:2309220 3' similar to gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3192	16367	29372	3.91	6.0E-04	AW026445.1	EST_HUMAN	w13e03.x1 NCI CGAP_Bim23 Homo sapiens cDNA clone IMAGE:2529436 3'
3192	16367	29373	3.91	6.0E-04	AW026445.1	EST_HUMAN	w13e03.x1 NCI CGAP_Bim23 Homo sapiens cDNA clone IMAGE:2529436 3'
6739	18932	32230	2.95	6.0E-04	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5739	18932	32231	2.95	6.0E-04	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5758	18930	32252	6.32	6.0E-04	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
5767	18959	32260	0.68	6.0E-04	6812461	NT	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA
5851	19137	32452	0.74	6.0E-04	11422189	NT	Homo sapiens calcitonin receptor (CALCR), mRNA
5951	19137	32453	0.74	6.0E-04	11422189	NT	Homo sapiens calcitonin receptor (CALCR), mRNA
7384	20462	33925	2.54	6.0E-04	11525879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
7384	20462	33926	2.54	6.0E-04	11525879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
9528	22593	36184	7.39	6.0E-04	11420555	NT	Homo sapiens acetyl-CoA synthetase (LOC55802), mRNA
9708	22765	36326	1.75	6.0E-04	AF274753.1	NT	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
9919	22959	36546	2.16	6.0E-04	S76476.1	NT	trkC [human, brain, mRNA, 2715 nt]
11008	24087	37724	4.68	6.0E-04	11420197	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA
11008	24087	37725	4.68	6.0E-04	11420197	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA
11269	16367	28372	1.73	6.0E-04	AW026445.1	EST_HUMAN	w13e03.x1 NCI CGAP_Bim23 Homo sapiens cDNA clone IMAGE:2529436 3'
11269	16367	28373	1.73	6.0E-04	AW026445.1	EST_HUMAN	w13e03.x1 NCI CGAP_Bim23 Homo sapiens cDNA clone IMAGE:2529436 3'
12400	25280	32081	2.98	6.0E-04	11526198	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
843	14021	27078	4.18	5.0E-04	AF231918.1	NT	Homo sapiens chromosome 21 unknown mRNA
843	14021	27079	4.18	5.0E-04	AF231918.1	NT	Homo sapiens chromosome 21 unknown mRNA
1359	14524	27698	1.02	5.0E-04	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1453	14806	27695	1.15	5.0E-04	L40933.1	NT	Homo sapiens phosphoglucomutase-related protein (PGMRP) gene, complete cds
1453	14806	27696	1.15	5.0E-04	L40933.1	NT	Homo sapiens phosphoglucomutase-related protein (PGMRP) gene, complete cds
1749	14898	27694	1.54	5.0E-04	U89358.1	NT	Human I(3)mb1 protein homolog mRNA, complete cds
2887	14693	27746	4.43	5.0E-04	7682205	NT	Homo sapiens KIAA0818 gene product (KIAA0818), mRNA
2887	14693	27747	4.43	5.0E-04	7682205	NT	Homo sapiens KIAA0818 gene product (KIAA0818), mRNA
4068	17224	30231	7.25	5.0E-04	AF017433.1	NT	Homo sapiens putative transcription factor CR53 (CR53) mRNA, partial cds
8000	21050	34563	0.71	4.0E-04	BE794607.1	EST_HUMAN	601590382F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944397 5'
11051	24128	37763	2.34	4.0E-04	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
11051	24128	37764	2.34	4.0E-04	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
2271	15404	28532	8.77	3.0E-04	C18856.1	EST_HUMAN	C18895 Human placenta cDNA (TFIIH) Homo sapiens cDNA clone GEN-669502 5'
3327	16500	29518	0.82	3.0E-04	BE794381.1	EST_HUMAN	601598595F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943577 5'
3528	16694	29704	1.83	3.0E-04	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3528	16894	28705	1.83	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'
6208	19381	32737	1.31	3.0E-64	Z26273.1	NT	H. sapiens isoform 1 gene for L-type calcium channel, exon 28
6471	19388	32997	0.88	3.0E-64	AW600861.1	EST_HUMAN	U1HF-BP0p-ab-c-05-0-UL1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:30793161 5'
6822	16782	33170	3.2	3.0E-64	BF370000.1	EST_HUMAN	RC8-FN0019-280600-011-G11 FN0019 Homo sapiens cDNA
8661	21741	35281	1.88	3.0E-64	AF248953.1	NT	Homo sapiens golgi matrix protein GM130 (GOLGA2) mRNA, complete cds
8661	21741	35282	1.88	3.0E-64	AF248953.1	NT	Homo sapiens golgi matrix protein GM130 (GOLGA2) mRNA, complete cds
8682	21772	35303	1.48	3.0E-64	BE208521.1	EST_HUMAN	bb72h12.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gb:1.08069 DNAJ
8682	21772	35304	1.48	3.0E-64	BE208521.1	EST_HUMAN	PROTEIN HOMOLOG 2 (HUMAN);
8627	22682	36251	1.12	3.0E-64	AL163246.2	NT	bb72h12.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gb:1.08069 DNAJ
8627	22682	36252	1.12	3.0E-64	AL163246.2	NT	PROTEIN HOMOLOG 2 (HUMAN);
8714	22778	36349	0.68	3.0E-64	AW977384.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
9714	22778	36350	0.68	3.0E-64	AW977384.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
11514	24571	38248	1.64	3.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
11514	24571	38249	1.54	3.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
11590	24975	39879	2.16	3.0E-64	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
1112	14277	27334	1.1	2.0E-64	AA609940.1	EST_HUMAN	af09d08.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1031151 3'
1428	14582	27635	3.2	2.0E-64	4757701	NT	Homo sapiens eIF4E-like cap-binding protein (4EHP) mRNA
2892	16717		1.28	2.0E-64	AI927030.1	EST_HUMAN	wo87b01.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2462281 3' similar to contains element L1 repetitive element;
2597	15721	28840	2.4	2.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2597	15721	28841	2.4	2.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
3887	17046	30045	0.88	2.0E-64	AW958145.1	EST_HUMAN	EST370216 MAGe resequences, MAGe Homo sapiens cDNA
3887	17046	30046	0.88	2.0E-64	AW958145.1	EST_HUMAN	EST370216 MAGe resequences, MAGe Homo sapiens cDNA
6129	19308	32849	2.28	2.0E-64	AU124387.1	EST_HUMAN	AU124387 NT2RM2 Homo sapiens cDNA clone NT2RM2002113 5'
6372	18541	32800	1.23	2.0E-64	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
6614	19774	33165	5.04	2.0E-64	BF688537.1	EST_HUMAN	602123474F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4280395 5'
6724	19881	33272	1.3	2.0E-64	AA078387.1	EST_HUMAN	oz28d03.x1 Soares_totat_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1676717 3'
6840	19993	33402	2.98	2.0E-64	M77185.1	NT	H. sapiens dopamine receptor D6 pseudogene 1, partial cds
7980	21040	34552	0.67	2.0E-64	11431054	NT	Homo sapiens ataxin 2-binding protein 1 (A2BP1), mRNA
8898	21947	35480	1.08	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plastin) (LCP1), mRNA
8898	21947	35481	1.08	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plastin) (LCP1), mRNA
9431	22506	36071	1.08	2.0E-64	AU132570.1	EST_HUMAN	AU132570 NT2RP4 Homo sapiens cDNA clone NT2RP400108 5'

Table 4
Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10184	23221	36815	0.5	2.0E-64	T06397.1	EST_HUMAN	EST04286 Fetal brain, Stratagene (cat#933206) Homo sapiens cDNA clone HFBDS88
10184	23221	36816	0.5	2.0E-64	T06397.1	EST_HUMAN	EST04286 Fetal brain, Stratagene (cat#933206) Homo sapiens cDNA clone HFBDS88
11000	24079	37714	2.21	2.0E-64	BF528114.1	EST_HUMAN	602042882 F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4180556 5'
11306	24371	38012	4.28	2.0E-64	A1922911.1	EST_HUMAN	wn81506.x1 NCI_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2452211 3'
11306	24371	38013	4.28	2.0E-64	A1922911.1	EST_HUMAN	wn81506.x1 NCI_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2452211 3'
11508	24567	38244	1.46	2.0E-64	AW854773.1	EST_HUMAN	PW2-SN0018-220300-002-er12 SN0018 Homo sapiens cDNA
12804	25537		3.59	2.0E-64	H55162.1	EST_HUMAN	CHR22D101 Chromosome 22 exon Homo sapiens cDNA clone C22_132 5'
268	19487	26517	1.39	1.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
1820	14969	28081	24.22	1.0E-64	A1928419.1	EST_HUMAN	au0001.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519136 3' similar to gb:L21686_cds1 PROTHYMOSIN ALPHA (HUMAN); contains element MSR1 repetitive element ;
3076	16252	28274	0.8	1.0E-64	4507334	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
3601	16765	28761	5.47	1.0E-64	AF198779.1	NT	Homo sapiens transcription factor (GHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel a-
3675	16838	29848	1.14	1.0E-64	AF228527.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
3675	16838	29849	1.14	1.0E-64	AF228527.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
4008	17165	30173	0.88	1.0E-64	8922828	NT	Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA
10269	23304	36901	1.17	1.0E-64	AA042975.1	EST_HUMAN	z635f08.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486567 3'
12291	25216		4.56	1.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2350	15481	28613	1.87	9.0E-65	X89211.1	NT	H. sapiens DNA for endogenous retroviral like element
2350	15481	28614	1.87	9.0E-65	X89211.1	NT	H. sapiens DNA for endogenous retroviral like element
11826	24815		19.08	9.0E-65	BF330676.1	EST_HUMAN	QV4-BT0257-081199-017-e03 BT0257 Homo sapiens cDNA
11799	24789	38486	7.24	8.0E-65	A1928244.1	EST_HUMAN	au59h07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519005 3' similar to SW/RL21_HUMAN P48778 60S RIBOSOMAL PROTEIN L21. ;
10358	23393	37004	2.16	7.0E-65	BE081653.1	EST_HUMAN	QV2-BT0635-240400-162-c02 BT0635 Homo sapiens cDNA
12065	26075	38782	2.88	7.0E-65	Z21378.1	EST_HUMAN	HSAAEA00 TEST1, Human adult Testis tissue Homo sapiens cDNA clone cam test346 (b)
1081	14247	27304	0.81	6.0E-65	AV721898.1	EST_HUMAN	AV721898 HTB Homo sapiens cDNA clone HTBBZC06 5'
1974	15117		20.04	6.0E-65	AA550928.1	EST_HUMAN	n86d10.s1 NCI_CGAP_P111 Homo sapiens cDNA clone IMAGE:999379 similar to gb:K03002 60S RIBOSOMAL PROTEIN L32 (HUMAN);
6859	19557	33247	0.8	6.0E-65	AA503892.1	EST_HUMAN	nh37607.s1 NCI_CGAP_P15 Homo sapiens cDNA clone IMAGE:954517
8945	22024	35564	2.45	6.0E-65	AW083252.1	EST_HUMAN	xc07608.x1 NCI_CGAP_Co21 Homo sapiens cDNA clone IMAGE:2583545 3' similar to TR:Q63306 Q63306
9213	22291	35833	4.63	6.0E-65	AA427878.1	EST_HUMAN	LONG INTERSPERSED REPETITIVE DNA CONTAINING 7 ORFS. ; contains L1 b2 L1 repetitive element ; zw59306.s1 Soares_total_fetus_Nb24-f8_9w Homo sapiens cDNA clone IMAGE:773747 3'

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9213	22291	35834	4.63	6.0E-65	AA427878.1	EST_HUMAN	zms3b08.s1 Soares fetal_Nb2Hf8_9w Homo sapiens cDNA clone IMAGE:773747 3'
9275	22351	35902	0.62	6.0E-65	AI085314.1	EST_HUMAN	qf18h05.x1 NCI_CGAP_Bim25 Homo sapiens cDNA clone IMAGE:1750425 3'
9275	22351	35903	0.62	6.0E-65	AI085314.1	EST_HUMAN	qf18h05.x1 NCI_CGAP_Bim25 Homo sapiens cDNA clone IMAGE:1750425 3'
11113	24185	37817	3.58	6.0E-65	BE587818.1	EST_HUMAN	601340485F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3682877 5'
11294	24360	38001	4.18	6.0E-65	BF340825.1	EST_HUMAN	602037721F1 NCI_CGAP_Bim24 Homo sapiens cDNA clone IMAGE:4185577 5'
11788	24778	38475	1.88	6.0E-65	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
649	13833	28859	1.89	5.0E-65	AF064604.1	NT	Homo sapiens KE03 protein mRNA, partial cds
1384	14539	27613	1.82	5.0E-65	7881951	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
1384	14539	27614	1.82	5.0E-65	7881951	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
2223	15357	28487	1.07	5.0E-65	AB033768.1	NT	Homo sapiens hPAD-ctdny10 mRNA for peptidylarginine deaminase type I, complete cds
3328	16501	29519	1.79	5.0E-65	4307948	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
3328	16501	29520	1.79	5.0E-65	4307948	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
7008	20144	33563	1.38	5.0E-65	4504608	NT	Homo sapiens interferon-related developmental regulator 1 (IFRD1), mRNA
10884	23718	37324	1.36	5.0E-65	AF009688.1	NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds
198	13421	26452	1.3	4.0E-65	AL120419.1	EST_HUMAN	DKFZp761G108.1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761G108 5'
764	13946	26991	1.23	4.0E-65	AI286468.1	EST_HUMAN	qm46e01.x1 Soares_placenta_8to9weeks_2NbhIP8b9W Homo sapiens cDNA clone IMAGE:1891800 3'
764	13945	26992	1.23	4.0E-65	AI286468.1	EST_HUMAN	qm46e01.x1 Soares_placenta_8to9weeks_2NbhIP8b9W Homo sapiens cDNA clone IMAGE:1891800 3'
1103	14268	27326	1.44	4.0E-65	4826735	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
1515	14668	27751	24.91	4.0E-65	4506688	NT	Homo sapiens ribosomal protein L34 (RPL34) mRNA
2413	15543	28670	1.02	4.0E-65	BE221469.1	EST_HUMAN	hu25e04.x1 NCI_CGAP_Mel16 Homo sapiens cDNA clone IMAGE:3171102 3'
2413	15543	28671	1.02	4.0E-65	BE221469.1	EST_HUMAN	hu25e04.x1 NCI_CGAP_Mel16 Homo sapiens cDNA clone IMAGE:3171102 3'
6284	19457	32807	4.98	4.0E-65	AB033093.1	NT	Homo sapiens mRNA for KIAA1257 protein, partial cds
6284	19457	32808	4.98	4.0E-65	AB033093.1	NT	Homo sapiens mRNA for KIAA1257 protein, partial cds
7233	20317	33760	0.96	4.0E-65	A17008372.1	NT	Homo sapiens oxysterol binding protein-related protein 3 (ORP3) mRNA, complete cds
7266	20349	33801	5.04	4.0E-65	M19879.1	NT	Homo sapiens catabin 27 gene, exons 10 and 11, and L1 and Alu repeats
7368	20447	33910	2.3	4.0E-65	11545780	NT	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
7721	20785	34273	0.65	4.0E-65	U40372.1	NT	Human 3'5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
7721	20785	34274	0.65	4.0E-65	U40372.1	NT	Human 3'5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
7893	21043	34555	0.67	4.0E-65	U39656.1	NT	Human MAP kinase kinase 6 (MKK6) mRNA, complete cds
8025	21108	34624	0.83	4.0E-65	5453765	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
8025	21108	34625	0.83	4.0E-65	5453765	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
8346	22422	35975	0.88	4.0E-65	11429127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10808	23841		2.12	4.0E-65	AJ277546.2	NT	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor
11360	24422	38078	1.92	4.0E-65	AF118946.1	NT	Homo sapiens PRO1474 mRNA, complete cds
12828	14208	27328	2.03	4.0E-65	4828735	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FMR1), mRNA
13201	13421	26452	1.26	4.0E-65	AL120419.1	EST_HUMAN	DKFZp761G108.1 781 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761G108.5
100	13336	26364	0.65	3.0E-65	5031976	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
1260	15980		18.37	3.0E-65	X78832.1	NT	H. sapiens HZF9 mRNA for zinc finger protein
1889	14741	27822	4.52	3.0E-65	4504828	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3) mRNA, and translated products
1888	16014	28122	1.31	3.0E-65	AJ000592.1	EST_HUMAN	ov23f03.a1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
3350	16522	29538	1.24	3.0E-65	4504850	NT	MSR1 repetitive element;
3815	16975	29978	1.08	3.0E-65	AJ000592.1	EST_HUMAN	Homo sapiens laminin, beta 1 (LAMB1), mRNA
4773	17908	30891	1.38	3.0E-65	6912385	NT	ov23f03.a1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
10274	23309	36905	1.61	3.0E-65	BE787368.1	EST_HUMAN	Homo sapiens rab6 GTPase activating protein (GAP and centrosome-associated) (GAPCENA), mRNA
11872	23900	37523	8.41	3.0E-65	AA430008.1	EST_HUMAN	601479688F1 NIH_MGC 88 Homo sapiens cDNA clone IMAGE:3882405 5'
3490	16857	28670	7.53	2.0E-65	BF680294.1	EST_HUMAN	zw65a06.l1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781042 5'
6696	19825		3.73	2.0E-65	BE263373.1	EST_HUMAN	602156062F1 NIH_MGC 83 Homo sapiens cDNA clone IMAGE:4295986 5'
7282	20365	33818	20.62	2.0E-65	BF576922.1	EST_HUMAN	601190883F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3594741 5'
9046	22125	35668	1.2	2.0E-65	AK024463.1	NT	602134359F1 NIH_MGC 81 Homo sapiens cDNA clone IMAGE:4288295 5'
9046	22125	35668	1.2	2.0E-65	AK024463.1	NT	Homo sapiens mRNA for FLJ00056 protein, partial cds
10882	23976	37608	1.46	2.0E-65	11419247	NT	Homo sapiens mRNA for FLJ00068 protein, partial cds
12241	25184		6.27	2.0E-65	AA307804.1	EST_HUMAN	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 (SMARCD3), mRNA
12748	25906		3.99	2.0E-65	BF246086.1	EST_HUMAN	EST1781755 Odon carcinoma (HCC) cell line Homo sapiens cDNA 5' end similar to similar to endogenous retrovirus
93	13328		0.69	1.0E-65	BF125544.1	EST_HUMAN	601854033F1 NIH_MGC 57 Homo sapiens cDNA clone IMAGE:4073769 5'
552	13745	26770	1.43	1.0E-65	7657495	NT	601763488F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:4028501 5'
1889	15033	28141	3.31	1.0E-65	AB026898.1	NT	Homo sapiens putative Rab5 GTP/GTP exchange factor homologue (RABEX5), mRNA
2098	15298	28360	1.48	1.0E-65	AB040546.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
3458	16625	28645	0.8	1.0E-65	BE466881.1	EST_HUMAN	Homo sapiens mRNA for KIAA1513 protein, partial cds
4105	17259	30259	2.07	1.0E-65	4504082	NT	h224a09.x1 NCI CGAP GC8 Homo sapiens cDNA clone IMAGE:3208898 3'

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4103	17259	30260	2.07	1.0E-65	4504082	NT	Homo sapiens glycican 4 (GPC4) mRNA
4323	17468	30451	2.53	1.0E-65	AW028340.1	EST_HUMAN	w09c09.x1 NCI CGAP_Ges4 Homo sapiens cDNA clone IMAGE:2543152 3'
4323	17468	30452	2.53	1.0E-65	AW028340.1	EST_HUMAN	w09c09.x1 NCI CGAP_Ges4 Homo sapiens cDNA clone IMAGE:2543152 3'
5143	18268	31235	1.57	1.0E-65	AW238282.1	EST_HUMAN	xp20c01.x1 NCI CGAP_HN10 Homo sapiens cDNA clone IMAGE:2740898 3'
5143	18268	31236	1.57	1.0E-65	AW238282.1	EST_HUMAN	xp20c01.x1 NCI CGAP_HN10 Homo sapiens cDNA clone IMAGE:2740898 3'
5400	18602	31572	0.86	1.0E-65	BE089509.1	EST_HUMAN	QV0-BT0702-170400-194409 BT0702 Homo sapiens cDNA
5400	18602	31573	0.86	1.0E-65	BE089509.1	EST_HUMAN	QV0-BT0702-170400-194409 BT0702 Homo sapiens cDNA
5594	18789	31837	0.59	1.0E-65	AI243738.1	EST_HUMAN	q088h07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854109 3' similar to TRQ07823
8448	21529	35057	1.5	1.0E-65	AW820481.1	EST_HUMAN	QV2-ST0288-140200-042-f12 ST0288 Homo sapiens cDNA
8448	21529	35058	1.5	1.0E-65	AW820481.1	EST_HUMAN	QV2-ST0288-140200-042-f12 ST0288 Homo sapiens cDNA
8475	21556	35088	0.63	1.0E-65	BE732118.1	EST_HUMAN	601566124F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841012 5'
8475	21556	35089	0.69	1.0E-65	BE732118.1	EST_HUMAN	601566124F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841012 5'
8514	21595	35129	2.04	1.0E-65	AU141295.1	EST_HUMAN	AU141295 THYRO1 Homo sapiens cDNA clone THYRO100356 5'
8514	21595	35130	2.04	1.0E-65	AU141295.1	EST_HUMAN	AU141295 THYRO1 Homo sapiens cDNA clone THYRO100356 5'
9041	22120	35662	1.01	1.0E-65	BF698707.1	EST_HUMAN	602126239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313 5'
9222	22300	35843	1.33	1.0E-65	AU129040.1	EST_HUMAN	AU129040 NT2RP2 Homo sapiens cDNA clone NT2RP2004714 5'
9222	22300	35844	1.33	1.0E-65	AU129040.1	EST_HUMAN	AU129040 NT2RP2 Homo sapiens cDNA clone NT2RP2004714 5'
9231	22309		2.79	1.0E-65	11431904	NT	Homo sapiens insulin 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA
9309	22365	35837	0.55	1.0E-65	7682227	NT	Homo sapiens KIAA0656 gene product (KIAA0656), mRNA
9378	22840	36210	6.6	1.0E-65	AI191716.1	EST_HUMAN	q056a02.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1733450 3' similar to gb:M28881 ZINC
10089	23127	36730	1.32	1.0E-65	AU153793.1	EST_HUMAN	FINGER PROTEIN 8 (HUMAN); contains MER19.H MER19 repetitive element;
10509	23544	37155	0.65	1.0E-65	AA069556.1	EST_HUMAN	AU153793 NT2RP3 Homo sapiens cDNA clone NT2RP3004016 3'
10790	23829	37483	1.23	1.0E-65	AB037832.1	NT	z75a04.t1 Soares_pituitary_gland_N3HP-G Homo sapiens cDNA clone IMAGE:382734 5'
10885	23969	37599	1.91	1.0E-65	M26167.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
11016	24095	37734	9.39	1.0E-65	4506880	NT	Human platelet factor 4 variation 1 (PF-4var1) gene, complete cds
11395	24456	38118	1.9	1.0E-65	BF698707.1	EST_HUMAN	Homo sapiens ribosomal protein L7a (RPL7A) mRNA
11486	24545	38217	2.58	1.0E-65	AI621017.1	EST_HUMAN	ts76a06.x1 NCI CGAP_GCS Homo sapiens cDNA clone IMAGE:4283313 5'
12292	25217		2.38	1.0E-65	11418041	NT	PANCREATITIS ASSOCIATED PROTEIN 1 PRECURSOR (HUMAN);
12391	25276	32078	3.77	1.0E-65	11418322	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
73	13310	26334	0.9	8.0E-66	AL180311.1	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
73	13310	26335	0.9	9.0E-66	AL180311.1	NT	Novel human gene mapping to chromosome 22
							Novel human gene mapping to chromosome 22

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1385	14540	27815	1.53	9.0E-08	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
1385	14540	27816	1.53	9.0E-08	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
1513	14686		6.93	9.0E-08	M87299.1	NT	Human transposon-like element, partial
4007	17164	30171	0.66	9.0E-08	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
4007	17164	30172	0.66	9.0E-08	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
11628	24708		1.8	7.0E-08	BE084410.1	EST_HUMAN	RC4-BT0311-141198-011-H06 BT0311 Homo sapiens cDNA
4485	17625	30605	1.16	6.0E-08	A924653.1	EST_HUMAN	wn57h07.x1 NCL_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP:F15G9.4A
4485	17625	30606	1.16	6.0E-08	A924653.1	EST_HUMAN	wn57h07.x1 NCL_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP:F15G9.4A
4485	17625	30607	1.16	6.0E-08	A924653.1	EST_HUMAN	wn57h07.x1 NCL_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP:F15G9.4A
8629	21709		0.46	6.0E-08	BE178663.1	EST_HUMAN	PM2-HT0604-030300-001-H06 HT0604 Homo sapiens cDNA
11427	24488	38152	3.22	6.0E-08	X69181.1	NT	H. sapiens mRNA for ribosomal protein L31
1396	14552	27827	2.45	5.0E-08	BE084410.1	EST_HUMAN	RC4-BT0311-141198-011-H06 BT0311 Homo sapiens cDNA
9494	22551	36113	8.4	5.0E-08	11420557	NT	Homo sapiens thyroid hormone receptor binding protein (AIB3), mRNA
813	13992	27046	1.8	4.0E-08	6679816	NT	Mus musculus fragile X mental retardation syndrome 1 homolog (Fmr1), mRNA
1775	14824	28018	0.97	4.0E-08	AW897798.1	EST_HUMAN	RC1-NN0063-100500-022-002 NN0063 Homo sapiens cDNA
2355	15486	28618	5.3	4.0E-08	X89211.1	NT	H. sapiens DNA for endogenous retroviral like element
2543	15988		3.15	4.0E-08	AJ223394.1	NT	Homo sapiens germ-line DNA upstream of Jkappa locus
4905	18035		5.02	4.0E-08	9635487	NT	Human endogenous retrovirus, complete genome
5698	18862	32147	3.57	4.0E-08	11428643	NT	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase (MTHFD2), mRNA
5891	19051	32358	0.87	4.0E-08	AW639119.1	EST_HUMAN	QV1-DT0089-110200-057-g10 DT0089 Homo sapiens cDNA
6895	18514	31506	4.91	4.0E-08	AW865473.1	EST_HUMAN	EST37546 MAGE resequences, MAGI Homo sapiens cDNA
7281	20384	33817	7.88	4.0E-08	U78168.1	NT	Homo sapiens cAMP-regulated guanine nucleotide exchange factor I (cAMP-GEFI) mRNA, complete cds
7807	18862	32147	0.83	4.0E-08	11428643	NT	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase (MTHFD2), mRNA
8269	21351	34867	6.14	4.0E-08	11421638	NT	Homo sapiens hypothetical protein FLJ20116 (FLJ20116), mRNA
8327	21409	34936	0.7	4.0E-08	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
10896	23980	37612	1.49	4.0E-08	BF507493.1	EST_HUMAN	U1-H-BW1-emi-a-10-Q.UJ.s1 NCL_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070747 3'
11660	24739	38430	1.63	4.0E-08	AB023215.1	NT	Homo sapiens mRNA for KIAA0898 protein, partial cds

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1458	14611	27692	14.93	3.0E-68	4502098	NT	Homo sapiens solute carrier family 26 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
1458	14611	27693	14.93	3.0E-68	4502098	NT	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
2039	15180	28290	1.04	3.0E-68	N55323.1	EST_HUMAN	yz27g12r1 Soares multiple sclerosis 2NblHMSF Homo sapiens cDNA clone IMAGE:284328 5' similar to SW:H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2 [2] PIR:B56812;
2039	15180	28291	1.04	3.0E-68	N55323.1	EST_HUMAN	yz27g12r1 Soares multiple sclerosis 2NblHMSF Homo sapiens cDNA clone IMAGE:284328 5' similar to SW:H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2 [2] PIR:B56812;
2039	15180	28292	1.04	3.0E-68	N55323.1	EST_HUMAN	yz27g12r1 Soares multiple sclerosis 2NblHMSF Homo sapiens cDNA clone IMAGE:284328 5' similar to SW:H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2 [2] PIR:B56812;
2772	15897	28397	3.44	3.0E-68	11141880	NT	Homo sapiens TGF-beta-induced transcription factor 2 (TGIF2), mRNA
3188	16361	28367	7.29	3.0E-68	7682223	NT	Homo sapiens KIAA0849 gene product (KIAA0849), mRNA
5593	18778	31823	0.85	3.0E-68	AB020688.1	NT	Homo sapiens mRNA for KIAA0892 protein, partial cds
5896	18889	32180	0.86	3.0E-68	MT3975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
5893	19051	32391	1.72	3.0E-68	11417948	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
5893	19051	32392	1.72	3.0E-68	11417948	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
7585	20657	34134	1.74	3.0E-68	X92211.1	NT	H. sapiens germline immunoglobulin heavy chain, variable region, (15-1)
9725	22790	36381	0.59	3.0E-68	AK024453.1	NT	Homo sapiens mRNA for FLJ00045 protein, partial cds
9920	22960	36547	0.52	3.0E-68	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10278	22913	36811	0.96	3.0E-68	7019480	NT	Homo sapiens protocadherin beta 1 (PCDH-beta1), mRNA
10741	23774	37369	0.95	3.0E-68	AF155659.1	NT	Homo sapiens molybdenum cofactor biosynthesis protein E (MCOBPE) mRNA, complete cds
11800	24790	39487	4.55	3.0E-68	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A) mRNA
52	13291	26304	1.48	2.0E-68	7657334	NT	Homo sapiens MisshepN1K-related kinase (MINIK), mRNA
52	13291	26306	1.48	2.0E-68	7657334	NT	Homo sapiens MisshepN1K-related kinase (MINIK), mRNA
435	13235	26235	0.87	2.0E-68	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products
435	13235	26236	0.87	2.0E-68	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products
1873	15017	28126	2.02	2.0E-68	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21G101
3039	16216	28238	1.07	2.0E-68	X95959.1	NT	H. sapiens pseudogene for the low affinity IL-8 receptor
3609	16773	29788	0.85	2.0E-68	8923280	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3681	17021	30019	0.78	2.0E-68	AL117233.1	NT	Novel human gene mapping to chromosome 1
4176	17326	30317	0.69	2.0E-68	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NCX3 (NCX1) mRNA, complete cds

Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value:	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4778	17913	30898	13.88	2.0E-66	AJ133287.2	NT	Homo sapiens HLA-B gene for human leukocyte antigen B
4778	17913	30899	13.88	2.0E-66	AJ133287.2	NT	Homo sapiens HLA-B gene for human leukocyte antigen B
5937	18123	32439	0.82	2.0E-66	AW988854.1	EST_HUMAN	EST380930 IMAGE resequences, MAGJ Homo sapiens cDNA
5937	18123	32437	0.82	2.0E-66	AW988854.1	EST_HUMAN	EST380930 IMAGE resequences, MAGJ Homo sapiens cDNA
9048	22127	35671	3.57	2.0E-66	N46480.1	EST_HUMAN	y58602.r1 Soares multiple sclerosis 2NBHMSF Homo sapiens cDNA clone IMAGE:277826 5'
12637	26147		2.84	2.0E-66	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
1717	14867		1.14	1.0E-66	BE887173.1	EST_HUMAN	601508378F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:380931 5'
2959	16136	29153	1.47	1.0E-66	AV717817.1	EST_HUMAN	AV717817 D8 Homo sapiens cDNA clone DCBADO07 5'
2959	16136	29164	1.47	1.0E-66	AV717817.1	EST_HUMAN	AV717817 D8 Homo sapiens cDNA clone DCBADO07 5'
4504	16136	29153	4.18	1.0E-66	AV717817.1	EST_HUMAN	AV717817 D8 Homo sapiens cDNA clone DCBADO07 5'
4504	16136	29154	4.18	1.0E-66	AV717817.1	EST_HUMAN	AV717817 D8 Homo sapiens cDNA clone DCBADO07 5'
5497	18698	31712	5.97	1.0E-66	BF673088.1	EST_HUMAN	602152896F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4294151 5'
5900	19089	32402	0.67	1.0E-66	BE765232.1	EST_HUMAN	IL2-NT0101-280700-118-E04 NT0101 Homo sapiens cDNA
7078	20131	33548	1.53	1.0E-66	BF328623.1	EST_HUMAN	IL2-NT0101-280700-118-E04 NT0101 Homo sapiens cDNA
8662	21732	35271	1.2	1.0E-66	AA698858.1	EST_HUMAN	RC8-BN0183-010900-034-G08 BN0183 Homo sapiens cDNA
9628	22881	36250	0.64	1.0E-66	AA018828.1	EST_HUMAN	aa80604.s1 NCJ CGAP GCBT Homo sapiens cDNA clone IMAGE:827282 3'
10582	23617	37223	0.93	1.0E-66	AV748749.1	EST_HUMAN	z657e12.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:383118 5'
10582	23617	37224	0.93	1.0E-66	AV748749.1	EST_HUMAN	AV748749 NPC Homo sapiens cDNA clone NPCBVA05 5'
11185	24254	37869	2.24	1.0E-66	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
12398	25278		1.92	9.0E-67	11418177	NT	Homo sapiens Rari GTPase activating protein 1 (RANGAP1), mRNA
6034	18162		0.91	8.0E-67	M78158.1	EST_HUMAN	EST01750 Subtracted hippocampus, Striatum (cat. #336205) Homo sapiens cDNA clone HICPN31 similar to L1 repetitive element
391	13628	26965	1.63	7.0E-67	AW162232.1	EST_HUMAN	au75d02.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104
1413	14567	27641	2.68	7.0E-67	AA383416.1	EST_HUMAN	ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
1585	14737	27817	1.39	7.0E-67	W85947.1	EST_HUMAN	EST198812 Testis I Homo sapiens cDNA 5' and similar to C. elegans hypothetical protein, cosmid ZK363
1585	14737	27818	1.39	7.0E-67	W85947.1	EST_HUMAN	zh56b05.r1 Soares fetal liver spleen INFLS S1 Homo sapiens cDNA clone IMAGE:416049 5'
2089	19229	28350	1.94	7.0E-67	7657243	NT	zh56b05.r1 Soares fetal liver spleen INFLS S1 Homo sapiens cDNA clone IMAGE:416049 5'
2089	19229	28351	1.94	7.0E-67	7657243	NT	Homo sapiens inositol 1,3,4-trisphosphate 5/6 kinase (ITPK1), mRNA
2871	13628	26965	1.36	7.0E-67	AW162232.1	EST_HUMAN	Homo sapiens inositol 1,3,4-trisphosphate 5/6 kinase (ITPK1), mRNA au75d02.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6205	19380	32730	0.08	7.0E-67	10100895	NT	Homo sapiens zinc finger protein 304 (ZNF304), mRNA
6400	19569	32830	1.67	7.0E-67	11425572	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
6400	19569	32831	1.67	7.0E-67	11425572	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
6863	20015	33425	1.12	7.0E-67	4885084	NT	Homo sapiens ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110/116KD) (ATP6N1A), mRNA
7809	20864	34358	0.99	7.0E-67	11419212	NT	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
7809	20864	34359	0.99	7.0E-67	11419212	NT	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
8288	21340	34857	0.52	7.0E-67	4826895	NT	Homo sapiens phosphodiesterase 1/nucleotide pyrophosphatase 3 (PDNPF3) mRNA
8518	21589	35134	0.7	7.0E-67	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8132	22211	35756	0.69	7.0E-67	10835044	NT	Homo sapiens retinaldehyde dehydrogenase 2 (RALDH2), mRNA
11565	24620		2.42	7.0E-67	11434579	NT	Homo sapiens fucosyltransferase 8 (alpha (1,6) fucosyltransferase) (FUT8), mRNA
11973	24958	38660	2.02	7.0E-67	U82486.1	NT	Human cytochrome oxidase subunit VIa (COX6A1P) pseudogene, complete cds
12168	26131	38829	4.05	7.0E-67	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12168	25131	38830	4.05	7.0E-67	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12684	25441	32053	1.92	7.0E-67	AB011389.1	NT	Homo sapiens gene for AF-8, complete cds
13106	26721		1.74	7.0E-67	11421527	NT	Homo sapiens calcium channel, voltage-dependent, alpha 2/delta subunit 1 (CACNA2D1), mRNA
573	13765	28788	1.09	6.0E-67	X68998.1	NT	H. sapiens mRNA for acetyl-CoA carboxylase
818	13997	27051	2.4	6.0E-67	Z17227.1	NT	Homo sapiens mRNA for transmembrane receptor protein
1302	14458	27624	1.07	6.0E-67	Y14320.1	NT	Homo sapiens PMP69 gene, exons 3, 4, 5, 6 & 7
3237	16411	29428	1.39	6.0E-67	4506434	NT	Homo sapiens retinoblastoma 1 (including osteosarcoma) (RB1) mRNA
3524	16889	29698	1.32	6.0E-67	4507332	NT	Homo sapiens Synapsin III (SYN3) mRNA, and translated products
3524	16889	29699	1.32	6.0E-67	4507332	NT	Homo sapiens Synapsin III (SYN3) mRNA, and translated products
4243	17389	30375	0.92	6.0E-67	AL169201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4243	17389	30376	0.92	6.0E-67	AL169201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4827	17960	30947	2.22	6.0E-67	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
4827	17960	30948	2.22	6.0E-67	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
13224	13765	26788	2.74	6.0E-67	X68998.1	NT	H. sapiens mRNA for acetyl-CoA carboxylase
3283	18467	29486	2.26	5.0E-67	AF009890.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
11230	24299		2.17	5.0E-67	BE010038.1	EST_HUMAN	PM3-BN0176-100400-001-g04 BN0176 Homo sapiens cDNA
1359	14514	27388	1.13	4.0E-67	R00819.1	EST_HUMAN	yn02d11.1 Scores adult brain N2b4fB55Y Homo sapiens cDNA clone IMAGE:167253 5'
8211	21293	34813	0.8	4.0E-67	AF733082.1	EST_HUMAN	oj26c05x6 NCI_CGAP_K163 Homo sapiens cDNA clone IMAGE:1493288 3' similar to SW-Z33A_HUMAN
8576	21657		1.48	4.0E-67	BF357321.1	EST_HUMAN	Q06790 ZINC FINGER PROTEIN 33A ;
							RC0-HT0634-150800-028-c03 HT0634 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11318	24381		1.76	4.0E-67	AA714294.1	EST_HUMAN	rw08a01.s1 NCI_CGAP_S51 Homo sapiens cDNA clone IMAGE:1238472 3' similar to TR:O10385 O10385
2874	13835	26862	2.03	3.0E-67	AA333768.1	EST_HUMAN	PRO-POL-DUTPASE POLYPROTEIN;
3542	16707	29718	2.05	3.0E-67	BE084410.1	EST_HUMAN	EST137803 Embryo, 9 week Homo sapiens cDNA 5' end
4816	17949	30934	2.96	3.0E-67	AW869169.1	EST_HUMAN	RC4-BT0311-141199-011-H08 BT0311 Homo sapiens cDNA
4845	17978		1.38	3.0E-67	AL163278.2	NT	MR3-SN0066-040500-008-01 SN0066 Homo sapiens cDNA
							Homo sapiens chromosome 21 segment HS21C079
8375	21456	34980	1.37	3.0E-67	BF198088.1	EST_HUMAN	hr81f05.x1 NCI_CGAP_K1d11 Homo sapiens cDNA clone IMAGE:3134913 3' similar to SW:RHOP_MOUSE
11537	24563		15.42	3.0E-67	AA927874.1	EST_HUMAN	Q81085 GTP-RHO BINDING PROTEIN 1;
							cm18b07.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1541365 3'
193	13416	26445	0.59	2.0E-67	BE348354.1	EST_HUMAN	hr19g09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3183136 3' similar to WP:F23H11.9
868	14044	27109	5.29	2.0E-67	AW818405.1	EST_HUMAN	CE09817;
1129	14294		2.48	2.0E-67	AF187480.1	NT	QV4-ST0234-181199-037-05 S10234 Homo sapiens cDNA
1833	15076	28179	1.23	2.0E-67	BE309037.1	EST_HUMAN	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exons 2a, 2, 3, and 4
1933	15076	28180	1.23	2.0E-67	BE309037.1	EST_HUMAN	ba72g05.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2906976 5' similar to TR:O94882 O94882
2458	16685	28713	1.18	2.0E-67	AF309561.1	NT	KIAA0798 PROTEIN.;
2502	16629	28749	1.37	2.0E-67	4786795	NT	Homo sapiens KRAB zinc finger protein ZFQR mRNA, complete cds
3557	16722	29737	3.76	2.0E-67	AA625785.1	EST_HUMAN	Homo sapiens developmentally regulated GTP-binding protein 1 (DRG1), mRNA
4109	17263	30263	3.13	2.0E-67	AL163300.2	NT	z1d1g01.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:745332 3'
6197	18372	32723	0.83	2.0E-67	AL048784.1	NT	Homo sapiens chromosome 21 segment HS21C100
6252	18426	32772	4.95	2.0E-67	BF240758.1	EST_HUMAN	Novel human gene mapping to chromosome 19
6425	18593	32958	1.74	2.0E-67	AB051763.1	NT	601876351F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4091893 5'
6425	18593	32959	1.74	2.0E-67	AB051763.1	NT	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
6779	18834	33330	0.84	2.0E-67	AL120542.1	EST_HUMAN	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
8755	21834	35374	1.09	2.0E-67	AA334608.1	EST_HUMAN	DKFZp761A229_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A229 5'
8755	21834	35375	1.09	2.0E-67	AA334608.1	EST_HUMAN	EST138850 Embryo, 9 week Homo sapiens cDNA 5' end similar to similar to cerebellin
9187	22275	35812	1.31	2.0E-67	AW602835.1	EST_HUMAN	EST138850 Embryo, 9 week Homo sapiens cDNA 5' end similar to similar to cerebellin
9187	22275	35813	1.31	2.0E-67	AW602835.1	EST_HUMAN	RC4-BT0568-170100-011-c07 BT0568 Homo sapiens cDNA
9766	22763	36332	0.55	2.0E-67	AV731333.1	EST_HUMAN	RC4-BT0568-170100-011-c07 BT0568 Homo sapiens cDNA
9910	22860	36536	0.89	2.0E-67	AW283824.1	EST_HUMAN	AV731333 HTF Homo sapiens cDNA clone HTFARD03 5'
10848	23861	37501	0.53	2.0E-67	AA928083.1	EST_HUMAN	U1H-B12-ehm-e-10-D-J1.e1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2727283 3'
11141	24213	37840	1.75	2.0E-67	BF685788.1	EST_HUMAN	cm18b07.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1603541 3'
							602140470F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4301705 5'

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11310	26230		2.65	2.0E-67	11436448	NT	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
11504	24562	38240	2.05	2.0E-67	BE285714.1	EST_HUMAN	601176762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
11743	23929	37555	2.44	2.0E-67	BF377169.1	EST_HUMAN	PM2-TN0103-040800-001-c02 TN0103 Homo sapiens cDNA
12527	25988	31770	2.47	2.0E-67	11418189	NT	Homo sapiens thyroid autoantigen 70KD (Ku antigen) (G22P1), mRNA
283	19482	26514	2.37	1.0E-67	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease sensitive, Alzheimer disease) (APP), mRNA
728	13908	26948	0.95	1.0E-67	AA702764.1	EST_HUMAN	z80b04.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:448015 3'
4833	17966	30984	0.73	1.0E-67	BF439247.1	EST_HUMAN	nd6108.x1 Soares_NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3'
11288	24337		1.47	1.0E-67	BE010038.1	EST_HUMAN	PM3-BN0178-100400-001-g04 BN0178 Homo sapiens cDNA
11205	25085		3.44	9.0E-68	4506080	NT	Homo sapiens mitogen-activated protein kinase 6 (MAPK6), mRNA
2245	15378	28506	8.3	8.0E-68	BE870732.1	EST_HUMAN	601448558F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3852254 5'
3973	17130	30133	5.75	8.0E-68	AA209458.1	EST_HUMAN	z82h10.11 Stragene HNT neuron (#837233) Homo sapiens cDNA clone IMAGE:848163 5' similar to SW:SAV_SULAC Q07590 SAV PROTEIN.;
3973	17130	30134	5.75	8.0E-68	AA209458.1	EST_HUMAN	z82h10.11 Stragene HNT neuron (#837233) Homo sapiens cDNA clone IMAGE:848163 5' similar to SW:SAV_SULAC Q07590 SAV PROTEIN.;
8283	21375	34895	0.56	7.0E-68	AB105055.1	EST_HUMAN	w88e03.x1 NC1_CGAP_P728 Homo sapiens cDNA clone IMAGE:2312860 3'
10668	23700	37310	6.43	6.0E-68	11422086	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
11417	24478	39143	1.31	6.0E-68	AF133901.1	NT	Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes, partial cds
12868	25579		2.84	6.0E-68	BE612554.1	EST_HUMAN	601452067F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855761 5'
13165	25756	31827	1.45	6.0E-68	BF310875.1	EST_HUMAN	601894635F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124144 5'
825	15986	27059	2	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
825	15986	27060	2	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
842	14020	27076	4.93	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
842	14020	27077	4.93	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3216	16390	29401	2.99	5.0E-68	AB037852.1	NT	Homo sapiens chromosome 21 unknown mRNA
4287	17440		0.64	5.0E-68	4826987	NT	Homo sapiens retinoblastoma-binding protein 2 (RBBP2) mRNA
2594	15719	28836	1	4.0E-68	11421388	NT	Homo sapiens transcription factor NRF (NRF), mRNA
2594	15719	28837	1	4.0E-68	11421388	NT	Homo sapiens transcription factor NRF (NRF), mRNA
5090	18218		7.11	4.0E-68	P04408	SW/ISSPROT	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE, LIVER
6085	19267	32596	0.69	4.0E-68	AF157083.1	NT	Homo sapiens sedlin (SEDL) gene, exon 4
6912	20227	33659	6.03	4.0E-68	11059591	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
6912	20227	33660	6.03	4.0E-68	11059591	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
7859	20913	34418	0.84	4.0E-68	7661883	NT	Homo sapiens DKFZP586L0724 protein (DKFZP586L0724), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8240	22317	35859	5.59	4.0E-68	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
8240	22317	35860	5.39	4.0E-68	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
9380	22455	36018	3.17	4.0E-68	AB040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
11261	24320	37960	1.84	4.0E-68	4506282	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
11251	24320	37961	1.84	4.0E-68	4506282	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
11434	24495	38161	1.72	4.0E-68	AB040948.1	NT	Homo sapiens mRNA for KIAA1515 protein, partial cds
12728	25485	32026	1.17	4.0E-68	11417968	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
3751	16912	29915	3.54	3.0E-68	AF236082.1	NT	Mus musculus G-protein coupled receptor GPR73 (Gpr73) mRNA, complete cds
9856	21039		3.5	3.0E-68	AB342323.1	EST_HUMAN	q138h02.x1 Scores_fetal_jung_NkHL18W Homo sapiens cDNA clone IMAGE:1850281 3' similar to contains
10720	23753	37359	1.35	3.0E-68	F28784.1	EST_HUMAN	THIR.12 T1-R repetitive element ;
13111	25902		2.83	3.0E-68	AW030485.1	EST_HUMAN	HSPD18178 HM3 Homo sapiens cDNA clone s3000023D09
2025	18474		29.7	2.0E-68	D00522.1	NT	QV7-DT0072-D10200-056-106 DT0072 Homo sapiens cDNA
4135	17288	30283	0.79	2.0E-68	BE875768.1	EST_HUMAN	Oriculus longicaudatus mRNA for EF-1 alpha, complete cds
4803	17938	30928	2.33	2.0E-68	AB006881.1	NT	71502.x1 NCI CGAP CLL1 Homo sapiens cDNA clone IMAGE:3294747 3' similar to TR:O80828 O80828
7015	20161		9.21	2.0E-68	R45088.1	EST_HUMAN	HYPOTHETICAL 88.8 KD PROTEIN ;
7209	20074	33486	3.81	2.0E-68	BF035318.1	EST_HUMAN	Homo sapiens gene for actin receptor type IIB, complete cds
7527	20800	34074	0.68	2.0E-68	BF336745.1	EST_HUMAN	y388g04.s1 Scores infant brain TNIB Homo sapiens cDNA clone IMAGE:34896 3'
9150	22228	35772	0.56	2.0E-68	Q05859	SWISSPROT	601468514F1 NIH_MGC 96 Homo sapiens cDNA clone IMAGE:3862034 5'
11521	24577	38255	1.49	2.0E-68	BF330594.1	EST_HUMAN	IL3-CT0534-180900-273-A01 CT0534 Homo sapiens cDNA
12285	26170		1.59	2.0E-68	BE897376.1	EST_HUMAN	FORMIN 4 (LIMB DEFORMITY PROTEIN)
13192	28776		1.32	2.0E-68	AW016803.1	EST_HUMAN	QV0-BT0074-130688-014-604 BT0074 Homo sapiens cDNA
81	13316	26344	0.83	1.0E-68	4505222	NT	601437387F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3922192 5'
307	13523	26557	18.49	1.0E-68	AW818405.1	EST_HUMAN	U1H-B10-asm-b-05-0-J1.s1 NCI CGAP Sub1 Homo sapiens cDNA clone IMAGE:2708824 3'
2326	15458	28590	1.24	1.0E-68	AB011149.1	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
2326	15458	28591	1.24	1.0E-68	BE296032.1	EST_HUMAN	QV4-ST0234-181199-037-005 ST0234 Homo sapiens cDNA
4117	17271	30270	0.9	1.0E-68	AA897943.1	EST_HUMAN	Homo sapiens mRNA for KIAA0577 protein, complete cds
5140	18263	31231	0.71	1.0E-68	7682349	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
5437	18637	31616	1.92	1.0E-68		NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
7853	20908	34412	0.75	1.0E-68	11496716	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
10385	23420	37027	0.45	1.0E-68	11419429	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
11089	24163	37799	2.16	1.0E-68	11418969	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds

Table 4

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11089	24183	37800	2.18	1.0E-68	11418869	NT	Homo sapiens phosphodiesterase 7B (PDE7B), mRNA
11142	24214	37841	2.81	1.0E-68	L76416.1	NT	Homo sapiens MIF2 suppressor (HSMIT3) mRNA, complete cds
11468	24527	38200	1.7	1.0E-68	11433277	NT	Homo sapiens myosin IC (MYOTIC), mRNA
11580	24634	38313	2.83	1.0E-68	U50319.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 4-5
11580	24634	38314	2.83	1.0E-68	U50319.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 4-5
11863	24948	38653	1.81	1.0E-68	11418431	NT	Homo sapiens CGI-78 protein (LOC51632), mRNA
11863	24948	38654	1.81	1.0E-68	11418431	NT	Homo sapiens CGI-78 protein (LOC51632), mRNA
12849	13316	26344	2.53	1.0E-68	4505222	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
13100	28092	31681	3.05	1.0E-68	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
13164	26755		1.88	1.0E-68	11418213	NT	Homo sapiens ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1), mRNA
22	13280	26260	2.42	9.0E-69	5031978	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
22	13280	26281	2.42	9.0E-69	5031978	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
1063	14219	27275	0.99	9.0E-69	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
1063	14219	27276	0.99	9.0E-69	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
4246	17392	30380	0.6	9.0E-69	4757687	NT	Homo sapiens v-rat murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
4268	17411	30397	0.89	9.0E-69	4504010	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), regulatory (30.8kD) (GLCLR) mRNA
11128	24200		7.86	9.0E-69	AU117241.1	EST_HUMAN	AU117241 HEMBA1 Homo sapiens cDNA clone HEMBA1000868 5'
3473	16840		1.28	8.0E-69	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
6482	19849	33011	4.44	7.0E-69	9988812	NT	Homo sapiens actin-related protein 3-beta (ARP3BETA), mRNA
8047	21130	34649	1.85	6.0E-69	A1192784.1	EST_HUMAN	q62h01.x1 Soares_fetal Jurk_NbHL19W Homo sapiens cDNA clone IMAGE:1743601 3' similar to
8047	21130	34650	1.85	6.0E-69	A1192784.1	EST_HUMAN	q62h01.x1 Soares_fetal Jurk_NbHL19W Homo sapiens cDNA clone IMAGE:1743601 3' similar to
9174	22252	35785	1.05	6.0E-69	AA826039.1	EST_HUMAN	gbl.L11568 80S RIBOSOMAL PROTEIN L18 (HUMAN);
633	13726		1.18	4.0E-69	A1879630.1	EST_HUMAN	cd60a03.3f NCJ_CGAP_GC81 Homo sapiens cDNA clone IMAGE:1372300 3'
5881	25812	32378	1.53	4.0E-69	BE581063.1	EST_HUMAN	wn26h11.x1 NCJ_CGAP_U44 Homo sapiens cDNA clone IMAGE:2437125 3'
5881	25812	32378	1.53	4.0E-69	BE581063.1	EST_HUMAN	601344705F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677641 5'
5886	19152	32467	4.82	4.0E-69	A1794979.1	EST_HUMAN	wn67506.x1 NCJ_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2384818 3' similar to TR-O55137
6764	18920	33315	3.17	4.0E-69	4557732	NT	O55137 ACYL-COA THIOESTERASE ;
6764	18920	33316	3.17	4.0E-69	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
9115	22194	35739	0.55	4.0E-69	AU119634.1	EST_HUMAN	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
397	13634	26672	5.24	3.0E-69	BE268012.1	EST_HUMAN	AU119634 HEMBA1 Homo sapiens cDNA clone HEMBA1006283 5'
627	13812	26834	2.78	3.0E-69	AF221712.1	NT	601110371F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3351352 5'
							Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1586	14738		1.12	3.0E-68	T80514.1	EST_HUMAN	y108a02.1 Scores Infant brain 1N1B Homo sapiens cDNA clone IMAGE:24880 5' similar to SP-A48839
2449	15577		2.18	3.0E-68	6729910	NT	A48836 SPEGF III=EGF REPEAT-CONTAINING FIBROPEL-LIKE PROTEIN - SEA URCHIN ;
5357	18483	38823	1.37	3.0E-69	11418185	NT	Homo sapiens lymphatic vessel endothelial hyaluronan receptor 1 (LYVE-1) mRNA
7529	20802	34076	0.78	3.0E-69	AF085703.1	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
7578	20850	34128	1.74	3.0E-69	U52351.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene
7724	20788	34277	8.4	3.0E-69	AF268075.1	NT	encoding mitochondrial protein, complete cds
8567	21648	35190	1.33	3.0E-69	AW138848.1	EST_HUMAN	Homo sapiens arm-repeat protein NPRAP/neurexigin (CTNND2) mRNA, partial cds
8967	22046		0.74	3.0E-69	AA376399.1	EST_HUMAN	Homo sapiens TRAF6-binding protein T6BP mRNA, complete cds
9613	22688	36238	1.74	3.0E-69	X13223.1	NT	UIH-B11-act-g-01-0.U1 et NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2715940 3'
9733	22798	36372	3.15	3.0E-69	X06233.1	NT	EST88807 HSC172 cells II Homo sapiens cDNA 5' and similar to ribosomal protein S18
10034	23072	36672	0.56	3.0E-69	5730036	NT	H sapiens mRNA for N-acetylglucosaminide-(beta 1-4)-galactosyltransferase
10877	23962	37590	2.74	3.0E-69	11432120	EST_HUMAN	Human mRNA for calcium-binding protein in macrophages (MRP-14) macrophage migration inhibitory factor (MIF)-related protein
11080	24155		7.68	3.0E-69	AA376399.1	NT	Homo sapiens SECT10 (S. cerevisiae)-like 1 (SEC10L1), mRNA
12112	25092	38795	1.77	3.0E-69	AB011541.1	NT	Homo sapiens ribosomal protein S15a (RPS15A), mRNA
12112	25092	38798	1.77	3.0E-69	AB011541.1	NT	EST88807 HSC172 cells II Homo sapiens cDNA 5' and similar to ribosomal protein S18
12305	25223		3.1	3.0E-69	11419157	NT	Homo sapiens mRNA for MEGF8, partial cds
131	13612	26651	1.09	2.0E-69	AF160252.1	NT	Homo sapiens HGO8.2 protein (HGO8.2), mRNA
131	13612	26652	1.09	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
417	13612	26651	4.42	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
417	13612	26652	4.42	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
1834	15077	28181	1.79	2.0E-69	BE257857.1	EST_HUMAN	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
2906	18084		4.14	2.0E-69	AA431157.1	EST_HUMAN	601109444F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350074 5'
8751	21830	35398	0.95	2.0E-69	AA114270.1	EST_HUMAN	601109444F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350074 5'
1080	14832		1	1.0E-69	BF330124.1	EST_HUMAN	2w71g02.1 Scores testis_NHT Homo sapiens cDNA clone IMAGE:781682 5'
1739	14888	27680	2.4	1.0E-69	AF053766.1	NT	2m29901.1 Stratiotype pancreas (8337208) Homo sapiens cDNA clone IMAGE:527088 5'
5137	18260		0.63	1.0E-69	BE405094.1	EST_HUMAN	Rat Rattus norvegicus brain specific cortactin-binding protein CBP90 mRNA, partial cds
6175	19351	32697	0.83	1.0E-69	BE902501.1	EST_HUMAN	601301284F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635781 5'
6175	19351	32698	0.83	1.0E-69	BE902501.1	EST_HUMAN	601675788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958532 5'
6738	18894	33285	4.36	1.0E-69	AW393989.1	EST_HUMAN	601675788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958532 5'
6958	20271	33709	1.22	1.0E-69	7662263	NT	QVO-TT0070-031199-045-c07 TT0010 Homo sapiens cDNA
							Homo sapiens KIAA0716 gene product (KIAA0716), mRNA

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6968	20271	33710	1.22	1.0E-69	7662263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
6976	20204	33631	2.81	1.0E-69	AB032973.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
6978	20204	33632	2.91	1.0E-69	AB032973.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
7021	20157	33578	0.61	1.0E-69	BE531007.1	EST_HUMAN	601278532F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3810614 5'
7021	20157	33578	0.61	1.0E-69	BE531007.1	EST_HUMAN	601278532F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3810614 5'
10377	23412	37020	5.01	1.0E-69	BE245070.1	EST_HUMAN	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP2878
10377	23412	37021	5.01	1.0E-69	BE245070.1	EST_HUMAN	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP2878
10625	23659	37268	0.91	1.0E-69	BF528428.1	EST_HUMAN	cDNA clone TCBAP2878
11112	24184		36.41	1.0E-69	4504918	NT	Homo sapiens keratin 8 (KRT8) mRNA
12237	25181	36332	1.88	1.0E-69	BF125887.1	EST_HUMAN	601762002F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4025785 5'
12873	25449		3.4	1.0E-69	AB039894.1	EST_HUMAN	wf84c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:4025785 5'
2409	16061	28687	1.56	8.0E-70	AA230303.1	EST_HUMAN	repetitive element/contaminant element MIR repetitive element
4493	17633	30615	1.64	8.0E-70	L77568.1	NT	nc13d12.r1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:1008023
1856	15002	28109	2.42	7.0E-70	AA97807.1	EST_HUMAN	Homo sapiens DGS1 mRNA, 3' end
1856	15002	28109	2.42	7.0E-70	AA97807.1	EST_HUMAN	hm89f01.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2166305 3'
1894	15127	28229	1.97	7.0E-70	AA282855.1	EST_HUMAN	hm89f01.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2166305 3'
2125	15261		5.13	7.0E-70	5031668	NT	2f15k04.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:713239 5'
4340	17483	30465	4.29	7.0E-70	4757723	NT	Homo sapiens tumor suppressor deleted in oral cancer-related 1 (DOC1R) mRNA
5600	18795	31844	5.4	7.0E-70	AB032369.1	NT	Homo sapiens adenylate cyclase 3 (ADCY3) mRNA
5600	18795	31845	5.4	7.0E-70	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
7094	20117	33531	1.91	7.0E-70	AJ000052.1	NT	Homo sapiens MIST mRNA, partial cds
7945	20985	34506	0.64	7.0E-70	AB037715.1	NT	Homo sapiens gene encoding splicing factor SF1, exons 2-8
8626	21708	35242	2.55	7.0E-70	AB037715.1	NT	Homo sapiens titin immunoglobulin domain protein (myotilin) (TTID), mRNA
8626	21708	35243	2.55	7.0E-70	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8819	21998	35538	3.8	7.0E-70	M74099.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8819	21998	35539	3.8	7.0E-70	M74099.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
9358	22433	35091	5.59	7.0E-70	X59841.1	NT	Human displacement protein (GCAAT) mRNA
9358	22433	35092	5.59	7.0E-70	X59841.1	NT	Human displacement protein (GCAAT) mRNA
9635	21078	34590	2.88	7.0E-70	AF153715.1	NT	Human PBX3 mRNA
9660	21102	34617	1.7	7.0E-70	11525984	NT	Human PBX3 mRNA
9660	21102	34618	1.7	7.0E-70	11525984	NT	Human PBX3 mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORE SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9857	22897	39480	0.53	7.0E-70	4557624	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase, catalytic (72 kD)) (GLCLC) mRNA
10505	23540	37149	0.85	7.0E-70	AB036429.1	NT	Homo sapiens NDS14 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
10505	23540	37150	0.85	7.0E-70	AB036429.1	NT	Homo sapiens NDS14 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
11329	24392	38039	1.77	7.0E-70	11429685	NT	Homo sapiens spastic paraplegia 4 (autosomal dominant; spastin) (SPO4), mRNA
11329	24392	38040	1.77	7.0E-70	11429685	NT	Homo sapiens spastic paraplegia 4 (autosomal dominant; spastin) (SPO4), mRNA
11897	24885	38583	2.37	7.0E-70	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
11897	24885	38584	2.37	7.0E-70	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
884	14070	27135	2.51	6.0E-70	4302166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease resistant, Alzheimer disease) (APP), mRNA
2205	15339	26466	2.29	6.0E-70	M30838.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4629	17765	30747	0.7	6.0E-70	AF164121.1	NT	Homo sapiens sodium-dependent high-affinity dicarboxylate transporter (NADC3) mRNA, complete cds
2618	16066	28854	1.78	5.0E-70	7662307	NT	Homo sapiens KIAA0792 gene product (KIAA0792), mRNA
2618	16066	28855	1.78	5.0E-70	7662307	NT	Homo sapiens KIAA0792 gene product (KIAA0792), mRNA
12247	25188	33454	5	5.0E-70	BE166034.1	EST_HUMAN	MF3-HT0487-150200-115-a08 HT0487 Homo sapiens cDNA
6894	20045	33454	1.03	4.0E-70	T06037.1	EST_HUMAN	EST03928 Fetal brain, Stratiogene (cat#936206) Homo sapiens cDNA clone HFBDN25
6833	20248	33682	1.84	4.0E-70	AW793226.1	EST_HUMAN	CM4-UM0003-010300-105-g08 UM0003 Homo sapiens cDNA
6833	20248	33683	1.84	4.0E-70	AW793226.1	EST_HUMAN	CM4-UM0003-010300-105-g08 UM0003 Homo sapiens cDNA
1619	14771	27853	1.71	3.0E-70	BE071786.1	EST_HUMAN	RC0-BT0522-071289-011-a12 BT0522 Homo sapiens cDNA
1619	14771	27854	1.71	3.0E-70	BE071786.1	EST_HUMAN	RC0-BT0522-071289-011-a12 BT0522 Homo sapiens cDNA
6270	18389	31367	1.11	3.0E-70	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
5737	18930	32227	0.59	3.0E-70	AJ271736.1	NT	Homo sapiens plikophilin 4 (PKP4), mRNA
5737	18930	32228	0.59	3.0E-70	11430988	NT	Homo sapiens plikophilin 4 (PKP4), mRNA
6068	19248	32575	1	3.0E-70	A1831975.1	EST_HUMAN	wh00303.ct NC1 CGAP CLL1 Homo sapiens cDNA clone IMAGE:2888005 3'
6503	19669	33033	1.89	3.0E-70	BF685233.1	EST_HUMAN	602141561F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302806 5'
6503	19669	33034	1.89	3.0E-70	BF685233.1	EST_HUMAN	602141561F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302806 5'
10314	23349	36955	0.82	3.0E-70	BE502973.1	EST_HUMAN	h281102.ct NC1 CGAP Lu24 Homo sapiens cDNA clone IMAGE:3214419 3'
39	13277	26283	1.03	2.0E-70	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
707	13890	26823	15.24	2.0E-70	N42161.1	EST_HUMAN	yy07a10.11 Soares melanocyte 2N81M Homo sapiens cDNA clone IMAGE:270522 5' similar to SW:DSHL_RAT P28263 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR;

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
707	13980	26824	15.24	2.0E-70	IN42101.1	EST_HUMAN	W07a10.1 Soares melanocyte 2N1bHM Homo sapiens cDNA clone IMAGE:270522 5' similar to
723	13905	26947	1.85	2.0E-70	AI246898.1	EST_HUMAN	SW:D3HL RAT P28268 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR:
1046	14212	27269	1.36	2.0E-70	89233693	NT	q051h01.x1 NCJ CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2004913 3'
1211	14372	27432	2.16	2.0E-70	7681983	NT	Homo sapiens hypothetical protein FLJ20758 (FLJ20758), mRNA
1211	14372	27433	2.16	2.0E-70	7681983	NT	Homo sapiens KIAA0183 gene product (KIAA0183), mRNA
1441	14594	27669	1.23	2.0E-70	BE467311.1	EST_HUMAN	Homo sapiens KIAA0183 gene product (KIAA0183), mRNA
							Homo sapiens KIAA0183 gene product (KIAA0183), mRNA
1688	14840	27924	1.07	2.0E-70	AA180093.1	EST_HUMAN	z045h05.1 Stragene HeLa cell s3 837216 Homo sapiens cDNA clone IMAGE:512441 5' similar to
1688	14840	27925	1.07	2.0E-70	AA180093.1	EST_HUMAN	TR:G1041293 G1041293 D2085.5
1781	14930	28023	4.82	2.0E-70	AL163202.2	NT	TR:G1041293 G1041293 D2085.5
							Homo sapiens chromosome 21 segment HSZ1C002
2394	15525		8.42	2.0E-70	AA054010.1	EST_HUMAN	z048g04.1 Soares retina N2b-41R Homo sapiens cDNA clone IMAGE:380214 5' similar to SW:GAG_HTL1A
3823	17082	30078	0.71	2.0E-70	AL133207.2	NT	P03345 GAG POLYPROTEIN:
4160	17311	30307	5.88	2.0E-70	M69181.1	NT	Novel human gene mapping to chromosome X
5632	18826	31901	8.42	2.0E-70	X72662.1	NT	Human nonmuscle myosin heavy chain-B (MYH10) mRNA, partial cds
5632	18826	31902	8.42	2.0E-70	X72662.1	NT	Human nonmuscle myosin heavy chain-B (MYH10) mRNA, partial cds
6333	19504	32862	1.23	2.0E-70	AF310105.1	NT	H. sapiens gene for schwannin (CSB)
6771	19926	33321	2.65	2.0E-70	D12825.1	NT	H. sapiens gene for schwannin (CSB)
6806	19980	33362	10.35	2.0E-70	AF123074.1	NT	Homo sapiens NALP1 mRNA, complete cds
6806	19980	33363	10.35	2.0E-70	AF123074.1	NT	Human mRNA for NF-1 protein isoform (neurofibromin isoform), complete cds
							Human mRNA for NF-1 protein isoform (neurofibromin isoform), complete cds
							Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
							Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
							Homo sapiens sialyltransferase 6 (N-acetylglucosaminide alpha 2,3-sialyltransferase) (SIAT6), mRNA
7193	19982	31477	1.5	2.0E-70	11422842	NT	Human guanidine nucleoside-binding protein alpha-subunit gene (G-a-alpha), exons 4 and 5
8103	21185	34704	2.81	2.0E-70	M21741.1	NT	Human sialyltransferase 6 (N-acetylglucosaminide alpha 2,3-sialyltransferase) (SIAT6), mRNA
							Storage disease type III (AGL), mRNA
							Homo sapiens amylo-1,8-glucosidase, 4-alpha-glucanotransferase (glycogen debranching enzyme, glycogen
8417	21498	35030	0.66	2.0E-70	11423599	NT	Storage disease type III (AGL), mRNA
8560	21810		1.34	2.0E-70	H47699.1	EST_HUMAN	yp79g02.1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:193682 5'
9370	22445	36007	1.14	2.0E-70	11526355	NT	Human sialyltransferase 6 (N-acetylglucosaminide alpha 2,3-sialyltransferase) (SIAT6), mRNA
10342	23377	36988	1.26	2.0E-70	AF123303.1	NT	Homo sapiens dynactin p62 subunit (LOC51104), mRNA
11324	24387	38031	3.39	2.0E-70	8823420	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
11324	24387	38032	3.39	2.0E-70	8823420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11324	24387	38032	3.39	2.0E-70	8823420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11940	24926	36628	7.78	2.0E-70	4803520	NT	Homo sapiens eukaryotic translation initiation factor 3, subunit 6 (48K) (EIF3S6) mRNA
12662	25439	32050	2.42	2.0E-70	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12662	25439	32051	2.42	2.0E-70	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3480	16647		3.72	1.0E-70	4507476	NT	Homo sapiens transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase) (TCM3)
9480	22637		0.84	1.0E-70	W85795.1	EST_HUMAN	mRNA
10003	23041		0.88	1.0E-70	AA44292.1	EST_HUMAN	z654c03.t1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:757444 5'
11175	24244	37877	7.61	1.0E-70	AV738638.1	EST_HUMAN	AV738638 CB Homo sapiens cDNA clone C8LB6810 5'
6065	19247	32573	6.03	9.0E-71	AI143870.1	EST_HUMAN	q604f01.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045
6065	19247	32574	6.03	9.0E-71	AI143870.1	EST_HUMAN	O14045 PHOSPHOTRANSFERASE. ;
7175	20308	33751	2.09	9.0E-71	AI654903.1	EST_HUMAN	q604f01.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045
11813	20308	33751	3.47	9.0E-71	AI654903.1	EST_HUMAN	O14045 PHOSPHOTRANSFERASE. ;
9270	22346		2.88	8.0E-71	AA171451.1	EST_HUMAN	W652c05.x1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213
10828	23681	37484	0.63	8.0E-71	AW273820.1	EST_HUMAN	CDJ2, CDJ1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ;
7653	20606	34081	7.88	7.0E-71	AA442230.1	EST_HUMAN	W652c05.x1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213
8877	21956	35491	1.34	7.0E-71	AA705457.1	EST_HUMAN	CDJ2, CDJ1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ;
11614	24665	38353	2.2	7.0E-71	AL163210.2	NT	z621d11.t1 Stratagene neuroepithelium (#837281) Homo sapiens cDNA clone IMAGE:610101 5' similar to
2284	15418	28548	7.11	5.0E-71	AF056322.1	NT	TR:G1143061 G1143061 STRAIN XA34 POL. ;
4235	17382	30371	1.18	5.0E-71	AW616405.1	EST_HUMAN	X624d01.x1 Soares_NFL.T.GBC S1 Homo sapiens cDNA clone IMAGE:2814049 3' similar to TR:O54730
6002	19187	32506	1.59	5.0E-71	4502740	NT	O54730 TRANSPLANTABILITY ASSOCIATED PROTEIN 1 ;
6801	19956	33358	1.4	5.0E-71	11641408	NT	z601d06.t1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:768076 6'
7060	20113	33528	0.94	5.0E-71	7682209	NT	z61a06.s1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:482226 3'
7296	20378	33896	0.82	5.0E-71	11431590	NT	Homo sapiens chromosome 21 segment HS21 C010
7679	20744	34225	1.79	5.0E-71	M38106.1	NT	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds
7884	20836	34442	0.8	5.0E-71	11528445	NT	QV4-ST0234-181189-037-105 ST0234 Homo sapiens cDNA
7912	20963	34471	20.85	5.0E-71	AF072810.1	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
8720	21800	35335	0.56	5.0E-71	5453777	NT	Homo sapiens keratin, hair, acidic, 7 (KRT1A7), mRNA
8720	21800	35336	0.56	5.0E-71	5453777	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
10115	23163		2.06	5.0E-71	U70998.1	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
10478	23511	37124	0.46	5.0E-71	U70998.1	NT	Homo sapiens neurofibromin protein type 1 mRNA, 3' end of cds
							Homo sapiens MAGUK protein p57; Protein Associated with Lys 2 (LOC51678), mRNA
							Homo sapiens transcription factor WSTF mRNA, complete cds
							Homo sapiens nuclear factor related to kappa B binding protein (NFKB) mRNA
							Homo sapiens nuclear factor related to kappa B binding protein (NFKB) mRNA
							Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 2)
							Human arrestin (SAG) gene exon 8

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10870	23955	37894	1.45	5.0E-71	5729900	NT	Homo sapiens IGF-II mRNA-binding protein 3 (KOC1), mRNA
10943	24025	37680	1.53	5.0E-71	11417012	NT	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC83170), mRNA
10943	24025	37661	1.53	5.0E-71	11417012	NT	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC83170), mRNA
11226	24295	37836	3.85	5.0E-71	11436514	NT	Homo sapiens pro-platelet basic protein (includes platelet basic protein, beta-thromboglobulin, connective tissue-activating peptide III, neutrophil-activating peptide-2) (PPBP), mRNA
11467	24526	38189	2.1	5.0E-71	11438069	NT	Homo sapiens similar to hypofunctional protein FLJ20183 (H. sapiens) (LOC83325), mRNA
12558	25380		1.75	5.0E-71	11418039	NT	Homo sapiens RNA binding motif protein 9 (RBM9), mRNA
106	13342	26370	1.84	4.0E-71	4507592	NT	Homo sapiens tumor necrosis factor (ligand) superfamily, member 10 (TNFSF10) mRNA
360	13571	26601	31.91	4.0E-71	AF157628.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
360	13571	26602	31.91	4.0E-71	AF157628.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
2951	16128	29141	1.87	4.0E-71	4505880	NT	Homo sapiens plasminogen (PLG) mRNA
4548	17696	30667	1.97	4.0E-71	AF056322.1	NT	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds
5101	18229	31200	4.56	4.0E-71	7657602	NT	Homo sapiens putative home-binding protein (SOL1), mRNA
8223	21305		1.13	3.0E-71	AU135734.1	EST_HUMAN	AU135734 PLACE1 Homo sapiens cDNA clone PLACE1002775 5'
10931	24013	37646	3.32	3.0E-71	AA557683.1	EST_HUMAN	n45h10.a1 NCL CGAP_P4 Homo sapiens cDNA clone IMAGE:1043663 similar to contains PTR5.13 PTR5 repetitive element;
1258	14416	27481	4.54	2.0E-71	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C008
5435	18635	31614	7.23	2.0E-71	D87462.1	NT	Human mRNA for KIAA0272 gene, partial cds
5435	18635	31615	7.23	2.0E-71	D87462.1	NT	Human mRNA for KIAA0272 gene, partial cds
7107	18534	31489	0.71	2.0E-71	AL042439.1	EST_HUMAN	DKFZp434D1721_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434D1721 5'
8207	22285	35826	0.5	2.0E-71	BF105585.1	EST_HUMAN	7n85c11.x1 NCL CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3571221 3' similar to TR:Q9Z165
10813	23846	37467	2.12	2.0E-71	AF085703.1	NT	Q9Z165 PUTATIVE FOUR REPEAT ION CHANNEL;
10813	23846	37468	2.12	2.0E-71	AF085703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
10833	24015	37647	4.37	2.0E-71	BE018477.1	EST_HUMAN	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
11860	24848	38545	1.46	2.0E-71	BF149173.1	EST_HUMAN	bb81a06.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048754 5' similar to SW R23B_HUMAN P94727 UV EXCISION REPAIR PROTEIN RAD23 HOMOLOG B;
11860	24848	38546	1.46	2.0E-71	BF149173.1	EST_HUMAN	Tm01022 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA similar to gi 6598881
11860	24848	38547	1.46	2.0E-71	BF149173.1	EST_HUMAN	Tm01022 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA similar to gi 6598881
11882	24870	38567	2.05	2.0E-71	RF56828.1	EST_HUMAN	Y77c1.1.r1 Soares breast 2NblHBst Homo sapiens cDNA clone IMAGE:154772 5'
12318	25231		4.88	2.0E-71	TB5489.1	EST_HUMAN	ye43e06.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:120520 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
655	13841	26858	1.55	1.0E-71	AI077927.1	EST_HUMAN	cy15a03.s1 Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:1665916 3' similar to contains LOR1.b2 LOR1 repetitive element;
984	14137	27108	1.38	1.0E-71	7708281	NT	Homo sapiens neuronal cell death-related protein (LOC51616), mRNA
1124	14289	27344	13.07	1.0E-71	AF205890.1	NT	Homo sapiens disabled-2 gene, exons 2 through 15 and complete cds
1371	14528	27600	11.13	1.0E-71	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
2147	15283	28408	1.92	1.0E-71	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
2147	15283	28409	1.52	1.0E-71	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
2757	16874	28982	8.09	1.0E-71	7957153	NT	Homo sapiens hairy/enhancer-of-split related with YRPW motif-like (HEYL), mRNA
3590	16764	29769	1.56	1.0E-71	AF110885.1	NT	Homo sapiens inorganic pyrophosphatase mRNA, complete cds
3685	16848	29855	6.57	1.0E-71	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3685	16848	29856	6.57	1.0E-71	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3798	16899	29902	0.9	1.0E-71	BE122850.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA clone 02_15 5' similar to Homo sapiens chromosome 19
3798	16899	29903	0.9	1.0E-71	BE122850.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA clone 02_15 5' similar to Homo sapiens chromosome 19
3835	16935	29997	2.2	1.0E-71	AF218904.1	NT	Homo sapiens attractin precursor (ATRIN) gene, exon 19
4593	17730	30712	2.13	1.0E-71	D28476.1	NT	Human mRNA for KIAA0045 gene, complete cds
6881	20033	33443	1.48	1.0E-71	11428182	NT	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homolog)-like 2 (GCN5L2), mRNA
7235	20319	33762	1.49	1.0E-71	AB011131.1	NT	Homo sapiens mRNA for KIAA0559 protein, partial cds
7464	20539	34013	12.52	1.0E-71	U90753.1	NT	Homo sapiens CAGL79 mRNA, partial cds
8340	21421	34946	0.82	1.0E-71	AF105287.1	NT	Homo sapiens glycican-6 (GPC6) mRNA, complete cds
8362	21443	34965	2.21	1.0E-71	11428430	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
8641	21721	35257	4.23	1.0E-71	8922811	NT	Homo sapiens hypothetical protein FLJ10998 (FLJ10998), mRNA
8641	21721	35258	4.23	1.0E-71	8922811	NT	Homo sapiens hypothetical protein FLJ10998 (FLJ10998), mRNA
9429	22503	36068	0.88	1.0E-71	S72393.1	NT	CSNK2A1-ncasein kinase II (CKII) subunit alpha [human, Genomic, 18882 nt]
10211	23247	36837	6.22	1.0E-71	AY007643.1	NT	Homo sapiens cytochrome c oxidase subunit VIIa-related protein gene, complete cds
10273	23308		2.74	1.0E-71	AV761217.1	EST_HUMAN	Homo sapiens activated leucocyte cell adhesion molecule (ALCAM), mRNA
10759	23792	37411	0.97	1.0E-71	11433142	NT	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
11024	24103		2.49	1.0E-71	AV761217.1	EST_HUMAN	Homo sapiens activated leucocyte cell adhesion molecule (ALCAM), mRNA
11121	24193	37624	3.31	1.0E-71	11418903	NT	Homo sapiens coagulation factor XIII, A1 polypeptide (F13A1), mRNA
11413	24474	38138	3.2	1.0E-71	11417191	NT	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), mRNA
11413	24474	38139	3.2	1.0E-71	11417191	NT	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), mRNA
12709	25471		10.17	1.0E-71	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
420	13015	26854	0.77	9.0E-72	A1857635.1	EST_HUMAN	w89g03.x1 NCI_CGAP_Lu18 Homo sapiens cDNA clone IMAGE:2423188 3' similar to TR:086705 086705 HYPOTHETICAL 38.6 KD PROTEIN. ; contains Alu repetitive element;
420	13016	26855	0.77	9.0E-72	A1857635.1	EST_HUMAN	w89g03.x1 NCI_CGAP_Lu18 Homo sapiens cDNA clone IMAGE:2423188 3' similar to TR:086705 086705 HYPOTHETICAL 38.6 KD PROTEIN. ; contains Alu repetitive element;
6237	19412	32760	0.86	8.0E-72	BF035752.1	EST_HUMAN	6014687/47F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862451 5'
4228	17375	30381	1.75	7.0E-72	4501866	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4228	17375	30382	1.75	7.0E-72	4501866	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4228	17375	30383	1.75	7.0E-72	4501866	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
7274	20357	33811	3	7.0E-72	S41694.1	NT	(pseudogene) P TMAP2=prothymosin alpha [human, Genomic, 1192 nt, segment 2 of 3]
12857	26569		1.53	7.0E-72	F28269.1	EST_HUMAN	HSPD13070 HM3 Homo sapiens cDNA clone e4000051 G02
8578	21659		5.7	6.0E-72	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C048
64	13302	26324	1.19	5.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
64	13302	26325	1.19	5.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
65	13302	26324	3.1	5.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
65	13302	26325	3.1	5.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
1162	14326		2.37	6.0E-72	L11845.1	NT	Homo sapiens alpha-tubulin mRNA, complete cds
7089	20183	33607	1.62	5.0E-72	AU126584.1	EST_HUMAN	AU126584 NT2RP2 Homo sapiens cDNA clone NT2RP2003/51 5'
8976	22055	35598	4.16	5.0E-72	AW161274.1	EST_HUMAN	au80-c03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782564 5' similar to TR:Q89785 Q89785 HYPOTHETICAL 92.4 KD PROTEIN ; contains element MSR1 repetitive element ;
10168	23203	36797	0.71	5.0E-72	AV724632.1	EST_HUMAN	AV724632 HTB Homo sapiens cDNA clone HTBAKB01 5'
11518	24575	38252	2.96	5.0E-72	BF331571.1	EST_HUMAN	MR4-BT0598-010600-005-d05 BT0598 Homo sapiens cDNA
11518	24576	38253	2.95	5.0E-72	BF331571.1	EST_HUMAN	MR4-BT0598-010600-005-d05 BT0598 Homo sapiens cDNA
11945	24081	38633	1.55	5.0E-72	BE208545.1	EST_HUMAN	ba08g08.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823806 5'
11945	24931	38634	1.55	5.0E-72	BE208545.1	EST_HUMAN	ba08g08.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823806 5'
12390	28136		2.46	5.0E-72	BE026945.1	EST_HUMAN	QV1-BT0632-280800-942-e10 BT0632 Homo sapiens cDNA
4043	18073		0.91	4.0E-72	11034844	NT	Homo sapiens hypothetical protein dJ1057B20.2 (DJ1057B20.2), mRNA
5581	18776	31821	0.68	4.0E-72	AF170025.1	NT	Homo sapiens zinc finger protein ZFP-85 (ZFP85) mRNA, alternatively spliced, complete cds
6687	19845	33236	0.85	4.0E-72	T87847.1	EST_HUMAN	y483a01.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:115752 5' similar to SP-A44282 A44282 RETROVIRUS-RELATED POLYPROTEIN - HUMAN ;
7587	20639	34115	3.26	4.0E-72	5729867	NT	Homo sapiens hec domain and RLD 2 (HERC2), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9887	23028	36618	0.87	4.0E-72	8823689	NT	Homo sapiens hypothetical protein FLJ20758 (FLJ20758), mRNA
10312	23347	36953	0.57	4.0E-72	11434344	NT	Homo sapiens SEC10 (S. cerevisiae)-like 1 (SEC10L1), mRNA
10604	23638	37245	0.54	4.0E-72	AW836230.1	EST_HUMAN	RC3-LT0023-200100-012-d11 LT0023 Homo sapiens cDNA
10604	23638	37246	0.54	4.0E-72	AW836230.1	EST_HUMAN	RC3-LT0023-200100-012-d11 LT0023 Homo sapiens cDNA
							qhe7c02.x1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1849730 3' similar to TR-Q14498 Q14498 SPLICING FACTOR [1]; contains Alu repetitive element; contains element L1 repetitive element;
10634	23668	37278	1.04	4.0E-72	A1248796.1	EST_HUMAN	aa23f09.s1 NCI CGAP GCB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR
11593	24618	38298	1.57	4.0E-72	AA465388.1	EST_HUMAN	P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR ;
11593	24618	38299	1.57	4.0E-72	AA465388.1	EST_HUMAN	aa23f09.s1 NCI CGAP GCB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR
11818	24607	38503	6.28	4.0E-72	H79421.1	EST_HUMAN	P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR ;
11838	24924	38624	2.19	4.0E-72	7657057	NT	yv28ad03.t1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:2355084 5'
11938	24924	38625	2.19	4.0E-72	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
11976	24961	38663	1.87	4.0E-72	T81910.1	EST_HUMAN	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
12779	25521	32003	11.86	4.0E-72	AJ277546.2	NT	yv28ad03.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:109849 3'
21	13259	28259	0.7	3.0E-72	6031976	NT	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor
926	14101		1.48	3.0E-72	AA723823.1	EST_HUMAN	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
1180	14343	27388	0.32	3.0E-72	U16306.1	NT	ah63a06.s1 Soares testis_NHT Homo sapiens cDNA clone 1310290 3'
1180	14343	27399	6.32	3.0E-72	U16306.1	NT	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds
1220	14381	27440	3.98	3.0E-72	U80228.1	NT	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds
1220	14381	27441	3.98	3.0E-72	U80228.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1548	14700	27779	1.16	3.0E-72	BE242161.1	EST_HUMAN	Human gamma-aminobutyric acid transaminase mRNA, partial cds
3143	18319	29331	12.72	3.0E-72	AJ229043.1	NT	TCAAP1E1252 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCOA Homo sapiens cDNA clone TCAAP1252
3352	16524	29539	2.7	3.0E-72	6923548	NT	Homo sapiens 959 kb config between AML1 and CBR1 on chromosome 21q22, segment 3/3
3927	17086	30082	2.51	3.0E-72	S77588.1	NT	Homo sapiens hypothetical protein FLJ20585 (FLJ20585), mRNA
4667	17802	30789	3.17	3.0E-72	11416186	NT	Homo sapiens hypothetical protein FLJ20585 (FLJ20585), mRNA
4889	18019	31003	1.25	3.0E-72	AF167572.1	NT	TCR V delta 2-C alpha = T-cell receptor delta and C alpha fusion gene (alternatively spliced, splice junction)
4889	18019	31004	1.25	3.0E-72	AF167572.1	NT	[Human, precursor B-cell line REH, mRNA Partial, 211 nt]
							Homo sapiens hypothetical protein (FLJ11127), mRNA
							Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds
							Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5637	18631		1.12	3.0E-72	4759083	NT	Homo sapiens semaphorin W (SEMAW) mRNA
6101	19281	32813	1.94	3.0E-72	AF073967.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
6101	19281	32814	1.94	3.0E-72	AF073967.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
6295	19468	32822	4.53	3.0E-72	AB028004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6295	19468	32823	4.53	3.0E-72	AB028004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6747	19903	33296	4.1	3.0E-72	4826987	NT	Homo sapiens ribosomal protein L3-like (RPL3L) mRNA
7758	20817	34307	2.01	3.0E-72	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (nailp) and survival motor neuron protein (smn) genes, complete cds
8369	21450	34973	5.42	3.0E-72	5031892	NT	Homo sapiens nuclear receptor subfamily 1, group H, member 3 (NHRH3), mRNA
10646	23680	37290	1.09	3.0E-72	X08280.1	NT	Homo sapiens S100A12 gene for Calgranulin C, exon 2 and joined cds
12078	25453	32018	2.18	3.0E-72	AB011389.1	NT	Homo sapiens gene for AF-6, complete cds
6079	18281	32600	1.38	2.0E-72	11426671	NT	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2), mRNA
9287	22373	35923	0.94	2.0E-72	BF308560.1	EST_HUMAN	601890.418F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131461 5'
9287	22373	35924	0.94	2.0E-72	BF308560.1	EST_HUMAN	601890.418F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131461 5'
10978	24057	37691	5.46	2.0E-72	AA789277.1	EST_HUMAN	ql28609.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391609 3' similar to gb202067 H. sapiens mRNA for 7SL RNA pseudogene (HUMAN);
12772	25515	31869	3.89	2.0E-72	AF182714.1	NT	Rattus norvegicus putative phosphatidylphosphatidylpyruvate translocator mRNA, complete cds
2137	15273	28394	8.14	1.0E-72	AA846226.1	EST_HUMAN	ai83d02.s1 Soares_papillary_tumor_Nb1FPA Homo sapiens cDNA clone IMAGE:1387395 3'
6887	19075	32384	3.54	1.0E-72	7657676	NT	Homo sapiens vacuolar protein sorting 41 (yeast homolog) (VPS41), mRNA
6889	19847	33237	1.22	1.0E-72	11321578	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6889	19847	33238	1.22	1.0E-72	11321578	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6769	26832	33319	1.28	1.0E-72	AV761818.1	EST_HUMAN	AV761818 NPD Homo sapiens cDNA clone NPDAIE11 5'
7515	20870	34386	3.5	1.0E-72	BE175434.1	EST_HUMAN	RC4-HT0578-170300-012-g02 HT0578 Homo sapiens cDNA
7515	20870	34387	3.5	1.0E-72	BE175434.1	EST_HUMAN	RC4-HT0578-170300-012-g02 HT0578 Homo sapiens cDNA
9780	22830	36408	7.37	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds
9780	22830	36409	7.37	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds
1488	14841	27723	1.17	9.0E-73	AW374968.1	EST_HUMAN	MRO-CT0083-071099-002-h11 CT0063 Homo sapiens cDNA
6164	19340	32687	0.92	9.0E-73	11525883	NT	Homo sapiens membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3) (MPP3), mRNA
11183	24262		24.49	9.0E-73	11424098	NT	Homo sapiens ribosomal protein L13a (RPL13A), mRNA
1063	14228	27285	0.73	8.0E-73	AW071755.1	EST_HUMAN	we55608.x1 NCJ_CGAP_Brm25 Homo sapiens cDNA clone IMAGE:2501098 3' similar to TR-Q59050
5698	18892	32184	0.98	8.0E-73	4505798	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6702	19860	33250	6.29	8.0E-73	11426469	NT	Homo sapiens lysosome homolog (LOC57151), mRNA
8287	21369	34890	2.1	8.0E-73	AF113128.1	NT	Homo sapiens vacuolar ATPase isoform VA68 mRNA, complete cds
8553	22618	36188	4.35	8.0E-73	BE019900.1	EST_HUMAN	bb62a08.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030034 5' similar to gb:X04088_cds1 ACTIN, CYTOPLASMIC 2 (HUMAN); gb:M21495 Mouse cytoskeletal gamma-actin mRNA, complete cds (MOUSE);
9941	22680	36570	1.76	8.0E-73	11528037	NT	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), mRNA
9941	22680	36571	1.76	8.0E-73	11526037	NT	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), mRNA
10134	23172	36770	0.51	8.0E-73	X91940.1	NT	H. sapiens mRNA for WNT-8B protein
10834	23667	37490	0.47	8.0E-73	4607628	NT	Homo sapiens transition protein 1 (during histone to protamine replacement) (TNPT1), mRNA
12001	24986	38690	1.49	8.0E-73	AF084520.1	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 mRNA, complete cds
12598	25403	32044	1.2	8.0E-73	AB002059.1	NT	Homo sapiens DNA for Human P2XM1, complete cds
12842	25580	31986	4.55	8.0E-73	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (GZP1), mRNA
1157	14321	27376	1.61	7.0E-73	8923280	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3373	16545	28559	0.7	7.0E-73	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
5059	16187		1.29	7.0E-73	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
162	13387		3.04	6.0E-73	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
7323	20405	33867	3.42	8.0E-73	BE168574.1	EST_HUMAN	QV0-HT0494-020300-137-403 HT0494 Homo sapiens cDNA
5368	18571	31439	2.05	4.0E-73	11422159	NT	Homo sapiens HELG protein (FAM441), mRNA
1911	15054	28166	1.34	3.0E-73	11435913	NT	Homo sapiens heme-binding protein (HEBP), mRNA
1911	15054	28168	1.34	3.0E-73	11435913	NT	Homo sapiens heme-binding protein (HEBP), mRNA
6837	19990	33398	0.73	3.0E-73	AA136403.1	EST_HUMAN	zn05e04.s1 Stratagene fetal retina 837202 Homo sapiens cDNA clone IMAGE:585950 3' similar to gb:Z23064_cds1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G (HUMAN);
8958	22037	35578	0.73	3.0E-73	AV729428.1	EST_HUMAN	AV729428 HTC Homo sapiens cDNA clone HTCAA0711 5'
8958	22037	35579	0.73	3.0E-73	AV729428.1	EST_HUMAN	AV729428 HTC Homo sapiens cDNA clone HTCAA0711 5'
10927	24010		1.45	3.0E-73	X99660.1	NT	H. sapiens SH3GLP2 pseudogene, 5' end
11261	24330	37970	1.41	3.0E-73	BE711238.1	EST_HUMAN	RC8-HT0678-280600-013-H10 HT0678 Homo sapiens cDNA
11261	24330	37971	1.41	3.0E-73	BE711238.1	EST_HUMAN	RC8-HT0678-280600-013-H10 HT0678 Homo sapiens cDNA
11910	24897		1.82	3.0E-73	AI004040.1	EST_HUMAN	cu11d02.x1 Soares_NFL_T_09C_S1 Homo sapiens cDNA clone IMAGE:1625955 3'
13118	26790		3.04	3.0E-73	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
13122	25732		2.05	3.0E-73	AW898081.1	EST_HUMAN	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
874	14050	27115	1.57	2.0E-73	AF139897.1	NT	Homo sapiens BASS1 (BASS1) mRNA, partial cds
2000	15141		9.57	2.0E-73	AW898081.1	EST_HUMAN	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
2371	15502		1.49	2.0E-73	U01317.1	NT	Human beta globin region on chromosome 11
3249	16423	29440	2.03	2.0E-73	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3640	16804	28816	0.68	2.0E-73	7689539	NT	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
3640	16804	28817	0.68	2.0E-73	7689539	NT	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
4555	17633		1.31	2.0E-73	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
6567	19729	33105	0.59	2.0E-73	AF086824.1	NT	Mus musculus rho/rac-interacting citron kinase (Crik) mRNA, complete cds
6567	19729	33107	0.59	2.0E-73	AF086824.1	NT	Mus musculus rho/rac-interacting citron kinase (Crik) mRNA, complete cds
6910	19770	33160	5.46	2.0E-73	AB046811.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
6939	19892	33400	1.87	2.0E-73	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
6939	19902	33401	1.87	2.0E-73	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
7984	21033	34546	1.01	2.0E-73	M94048.1	NT	Human peripheral myelin protein 22 mRNA, complete cds
9732	22797	36370	0.54	2.0E-73	AF198349.1	NT	Gallus gallus Dact2 protein (Dact2) mRNA, complete cds
9732	22797	36371	0.54	2.0E-73	AF198349.1	NT	Gallus gallus Dact2 protein (Dact2) mRNA, complete cds
10637	23671	37281	1.31	2.0E-73	4504168	NT	Homo sapiens glutathione synthetase (GSS) mRNA
10715	23748	37355	1.38	2.0E-73	11495980	NT	Homo sapiens supravillin (SVIL), transcript variant 1, mRNA
10716	23748	37356	1.38	2.0E-73	11495980	NT	Homo sapiens supravillin (SVIL), transcript variant 1, mRNA
11309	24374	38017	2.91	2.0E-73	4557612	NT	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA
11309	24374	38018	2.91	2.0E-73	4557612	NT	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA
11339	24402	38051	1.44	2.0E-73	AB028982.1	NT	Homo sapiens mRNA for KIAA1059 protein, partial cds
12569	15141		4.32	2.0E-73	AW898081.1	EST_HUMAN	Homo sapiens cDNA clone MAMMA1000490 5'
1824	14973	28068	3.52	1.0E-73	AL121585.1	EST_HUMAN	RC9-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
6490	19656	33019	1.19	1.0E-73	BE151283.1	EST_HUMAN	CM1-HT0282-111189-042-h10 HT0282 Homo sapiens cDNA
8698	22748	36318	1.22	1.0E-73	AL147427.1	EST_HUMAN	qg61507 r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:183937 5' similar to contains element
11736	28922	37647	3.74	1.0E-73	BE385477.1	EST_HUMAN	MER22 repetitive element:
12045	25026	38731	1.34	9.0E-74	X77225.1	NT	601276071F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3817105 5'
12045	25026	38732	1.34	9.0E-74	X77225.1	NT	H. sapiens mRNA for TFIIA
769	18940	26985	4.83	8.0E-74	4557426	NT	H. sapiens mRNA for TFIIA
8036	19219	32541	1.73	8.0E-74	S83104.1	NT	Homo sapiens CD39-like 4 (CD39L4) mRNA
8036	19219	32542	1.73	8.0E-74	S83104.1	NT	Ca2+/calmodulin-dependent protein kinase IV kinase isoform [rat, brain, mRNA, 3429 nt]
2004	15144	28249	4.96	7.0E-74	AJ001689.1	NT	Ca2+/calmodulin-dependent protein kinase IV kinase isoform [rat, brain, mRNA, 3429 nt]
3407	16577	29592	1.83	7.0E-74	AL163246.2	NT	Homo sapiens NKX2-2 gene, exon 10
9444	22560	38123	1.48	7.0E-74	BE967432.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
12841	25559	31885	4.73	7.0E-74	BE266305.1	EST_HUMAN	601649284F1 NIH_MGC_73 Homo sapiens cDNA clone IMAGE:3832997 5'
							601191827F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3535855 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1146	14311	27369	3.65	6.0E-74	AF109907.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
1656	14809	27883	1.03	6.0E-74	AW263177.1	EST_HUMAN	xn78g07.x1 Soares_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2700638 3'
2390	15521	28649	15.52	6.0E-74	BE388200.1	EST_HUMAN	601283521F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605453 5'
2390	15521	28650	15.52	6.0E-74	BE388200.1	EST_HUMAN	601283521F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605453 5'
2927	16104	29119	0.97	6.0E-74	AW014039.1	EST_HUMAN	UHH-B10-ash-h-03-0-U1.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709365 3'
2927	16104	29120	0.97	6.0E-74	AW014039.1	EST_HUMAN	UHH-B10-ash-h-03-0-U1.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709365 3'
3805	16865	28968	1.22	6.0E-74	BE048846.1	EST_HUMAN	hr54e11.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3192332 3'
3805	16865	29969	1.22	6.0E-74	BE048846.1	EST_HUMAN	hr54e11.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3192332 3'
5481	18680	31695	3.46	6.0E-74	11058013	NT	Homo sapiens actin filament associated protein (AFAP), mRNA
928	14103	27166	1.93	5.0E-74	AW020988.1	EST_HUMAN	df17d09.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2483704 5'
2767	15882		4.96	5.0E-74	AW362758.1	EST_HUMAN	PMO-C10289-271096-001-h07 C10289 Homo sapiens cDNA
5623	18720	31736	1.92	5.0E-74	11425417	NT	Homo sapiens phosphatidylinositol glycan, class I (PIGL), mRNA
5910	19099	32413	12.5	5.0E-74	X89070.1	NT	H. sapiens mRNA for TPCR16 protein
5961	19147	32482	8.1	6.0E-74	4507868	NT	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
6030	19213	32533	2.94	5.0E-74	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
8030	19213	32534	2.94	5.0E-74	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
7035	20171	33593	3.59	6.0E-74	7662263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
8226	21308	34828	2.33	5.0E-74	11345463	NT	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
10973	24053	37686	1.67	5.0E-74	Y09420.1	NT	H. sapiens mRNA for HIP-1
10973	24053	37687	1.67	5.0E-74	Y09420.1	NT	H. sapiens mRNA for HIP-1
11090	24164	37801	1.38	5.0E-74	5729798	NT	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
290	13507	26542	3.31	4.0E-74	D87075.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
875	14051	27116	10.3	4.0E-74	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
2018	15158	28282	3.07	4.0E-74	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
2018	15158	28283	3.07	4.0E-74	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
2134	15270	28390	9.96	4.0E-74	4506192	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2134	15270	28391	9.98	4.0E-74	4506192	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2201	15338	28463	1.32	4.0E-74	AB032994.1	NT	Homo sapiens mRNA for KIAA1168 protein, partial cds
2498	15625	28745	1.16	4.0E-74	AJ006976.1	NT	Homo sapiens PIP gene

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3160	16335	26345	6.22	4.0E-74	AL006876.1	NT	Homo sapiens PLP gene
3616	16780	29795	1.1	4.0E-74	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4174	17324	30315	1.29	4.0E-74	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
4670	17814	30802	1.86	4.0E-74	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
4735	17870	30854	1.07	4.0E-74	Z17227.1	NT	Homo sapiens mRNA for transmembrane receptor protein
5133	18258	31224	1.03	4.0E-74	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
5185	18307	31271	1.12	4.0E-74	4504326	NT	Homo sapiens hydroxycyl-Coenzyme A dehydrogenase/3-ketocyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
6185	18307	31272	1.12	4.0E-74	4504326	NT	Homo sapiens hydroxycyl-Coenzyme A dehydrogenase/3-ketocyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
8747	21828		3.53	3.0E-74	AA300376.1	EST_HUMAN	EST13131 Thymus tumor III Homo sapiens cDNA 5' end similar to ribosomal protein L37
8773	21852	36394	0.62	3.0E-74	8906912	NT	Homo sapiens actin-related protein 3-beta (ARP3BETA), mRNA
9572	22714	36282	2.32	3.0E-74	MT6884.1	EST_HUMAN	EST01132 Subtracted Hippocampus, Striatum (cat. #836205) Homo sapiens cDNA clone HHCPF81
10546	23581	37197	2.16	3.0E-74	AA801483.1	EST_HUMAN	no17605.s1 NCI_CGAP_Pho1 Homo sapiens cDNA clone IMAGE:1100984.3'
980	14153	27213	28.83	2.0E-74	7669491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
980	14153	27214	28.83	2.0E-74	7669491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
1202	14364	27424	1.63	2.0E-74	AF020092.1	NT	Human endogenous retrovirus HERV-K-T47D
1273	14430	27501	1.44	2.0E-74	AI050528.1	EST_HUMAN	W651607.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2647204.3' similar to SW:GG86_HUMAN
1825	14777	27861	10.45	2.0E-74	4885168	NT	Q08376 GOLGIN-86; contains element MER22 repetitive element;
1825	14777	27861	10.45	2.0E-74	4885168	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA
1825	14777	27861	10.45	2.0E-74	4885168	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA
1825	14777	27861	10.45	2.0E-74	4885168	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA
2658	15789	28805	2.18	2.0E-74	AI557280.1	EST_HUMAN	PT2.1_15_G11.1 tumor2 Homo sapiens cDNA 3'
5119	18245	31210	2.52	2.0E-74	AL355092.1	NT	Novel human gene mapping to chromosome 22
5119	18245	31211	2.52	2.0E-74	AL355092.1	NT	Novel human gene mapping to chromosome 22
5019	25813	32419	1.88	2.0E-74	BE711134.1	EST_HUMAN	RC6-HT0678-220500-011-C03 HT0678 Homo sapiens cDNA
6017	25816	32518	1.77	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73NY-CO-38), mRNA
6017	25816	32519	1.77	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73NY-CO-38), mRNA
6087	25816	32518	2.78	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73NY-CO-38), mRNA
6087	25816	32519	2.78	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73NY-CO-38), mRNA
7252	20335	33764	2.5	2.0E-74	BF030788.1	EST_HUMAN	601557524F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827549.5'
8126	21208	34728	1.8	2.0E-74	AB037816.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds

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9582	22724	36294	5.27	2.0E-74	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
12526	25359		2.87	2.0E-74	AA196181.1	EST_HUMAN	z98a06.s1 Striatagene muscle 937209 Homo sapiens cDNA clone IMAGE:628018 3'
13189	26176		1.16	2.0E-74	BF002855.1	EST_HUMAN	7g50a08.x1 NCI_CGAP_P28 Homo sapiens cDNA clone IMAGE:3309878 3'
54	13293	26306	1.5	1.0E-74	7657334	NT	Homo sapiens Mississippin/NIK-related kinase (MINIK), mRNA
347	13558	26386	3.71	1.0E-74	AW816405.1	EST_HUMAN	QV4-ST0234-181189-Q37-05 ST0234 Homo sapiens cDNA
512	13708	26734	1.8	1.0E-74	8922828	NT	Homo sapiens hypothetical protein FLJ11028 (FLJ11028), mRNA
519	13712	26739	2.59	1.0E-74	X02344.1	NT	Homo sapiens beta 2 gene
614	13803	26823	1.28	1.0E-74	4508020	NT	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
804	13984	27039	0.88	1.0E-74	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
1024	14195	27253	2.26	1.0E-74	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C048
2301	15433	28568	6.03	1.0E-74	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
3209	16383	29394	2.82	1.0E-74	4768697	NT	Homo sapiens mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA
3460	16627	29646	1.29	1.0E-74	AA258549.1	EST_HUMAN	z60c01.r1 Soares_NIHMPu_S1 Homo sapiens cDNA clone IMAGE:667776 5'
3460	16627	29647	1.29	1.0E-74	AA258549.1	EST_HUMAN	z60c01.r1 Soares_NIHMPu_S1 Homo sapiens cDNA clone IMAGE:667776 5'
4031	17187	30197	0.84	1.0E-74	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4031	17187	30198	0.84	1.0E-74	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4075	17231	30237	5.41	1.0E-74	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C088
4175	17325	30316	0.85	1.0E-74	BE083080.1	EST_HUMAN	RC2-BT0642-270300-019-006 BT0642 Homo sapiens cDNA
4382	17525	30508	0.87	1.0E-74	BE497789.1	EST_HUMAN	hz73h08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3213663 3' similar to WP-B0511.12
6844	19897	33404	1.29	1.0E-74	M89914.1	NT	CE17951 ; Human neurofibrillin (NF1) gene, complete cds
7804	20860	34353	1.05	1.0E-74	11417977	NT	Homo sapiens KIAA0852 protein (KIAA0852), mRNA
8246	21328	34844	1.27	1.0E-74	BE549105.1	EST_HUMAN	601070088F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3456280 5'
8246	21328	34845	1.27	1.0E-74	BE549105.1	EST_HUMAN	601070088F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3456280 5'
9005	22084	35927	7.81	1.0E-74	AF214592.1	NT	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds
9034	22113	35658	0.87	1.0E-74	BF351651.1	EST_HUMAN	MF0-HT0559-230500-021-003 HT0559 Homo sapiens cDNA
10445	22480	37088	0.65	1.0E-74	AJ251550.1	NT	Homo sapiens partial AK155 gene for AK155 protein, exons 1-3 and joined CDS
10445	22480	37087	0.65	1.0E-74	AJ251550.1	NT	Homo sapiens partial AK155 gene for AK155 protein, exons 1-3 and joined CDS
10699	23732	37337	1.77	1.0E-74	11420549	NT	Homo sapiens hypothetical protein FLJ10783 (FLJ10783), mRNA
12154	25124	38820	1.94	1.0E-74	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
12238	25182		4.87	1.0E-74	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
12386	15433	28566	1.61	1.0E-74	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
12925	28910		1.38	1.0E-74	AF240789.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds

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2709	15827		6.1	8.0E-75	AF176228.1	NT	Homo sapiens DNA cytosine-5 methyltransferase 3B (DNMT3B) mRNA, complete cds
12652	26375		3.07	8.0E-75	AL169202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2395	15526	28654	1.26	6.0E-75	AB17415.1	EST_HUMAN	W38a08.x1 NCI_CGAP_P122 Homo sapiens cDNA clone IMAGE:2417854 3' similar to gb:M14123_cds4
11780	24770	39466	1.39	6.0E-75	BE791831.1	EST_HUMAN	RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN)
9109	22188	35731	1.09	5.0E-75	BE272825.1	EST_HUMAN	601586108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3940130 5'
8317	22353	35944	0.77	5.0E-75	AA132611.1	EST_HUMAN	601126068F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:2899865 5'
9395	22470	36034	0.47	5.0E-75	BE561655.1	EST_HUMAN	2017e08.r1 Strategene colon (#837204) Homo sapiens cDNA clone IMAGE:587174 5'
9395	22470	36035	0.47	5.0E-75	BE561655.1	EST_HUMAN	601346908F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3887458 5'
8573	22715	36283	1.1	5.0E-75	BF690254.1	EST_HUMAN	601346908F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3887458 5'
10439	23474	37078	2.64	5.0E-75	AB988623.1	EST_HUMAN	602186616T1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4298738 3'
115	13346	26373	2.1	4.0E-75	BE061333.1	EST_HUMAN	831c12.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2242390 3' similar to TR:P97361 P97361
471	13666		1.88	4.0E-75	N36757.1	EST_HUMAN	HYPOTHETICAL 20.1 KD PROTEIN ;
1805	14954	28048	1.08	4.0E-75	AW897230.1	EST_HUMAN	QY1-BT0632-210203-079-e02 BT0632 Homo sapiens cDNA
2910	16098	29101	5.64	4.0E-75	BE409464.1	EST_HUMAN	Y90108.r1 Soares melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:289055 5'
5948	18840	32120	0.98	4.0E-75	11417948	NT	CMD-NN0057-150400-335-a11 NN0057 Homo sapiens cDNA
5648	18840	32121	0.98	4.0E-75	11417948	NT	60130366F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3633344 5'
6399	19598	32929	5.18	4.0E-75	5579457	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6938	20048	33459	1.4	4.0E-75	11417948	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6938	20048	33459	1.4	4.0E-75	11417948	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
10524	24007	37642	10.52	4.0E-75	7669605	NT	Homo sapiens eukaryotic translation initiation factor 3, subunit 8 (110K) (EIF3S8), mRNA
1027	14198	27266	3.6	3.0E-75	AF157623.1	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
1028	14198	27266	3.59	3.0E-75	AF157623.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
1883	15027	28134	2.23	3.0E-75	AB011153.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
2180	15315	28444	1.44	3.0E-75	4507334	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
2494	15621	28740	4.39	3.0E-75	4759153	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
3086	16262	29279	0.96	3.0E-75	AL163201.2	NT	Homo sapiens synaptosomal-associated protein, 28kD (SNAP28) mRNA
3258	16432	28449	1.09	3.0E-75	AB011153.1	NT	Homo sapiens chromosome 21 segment HS21C001
3431	16599	29610	0.93	3.0E-75	M72393.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
3431	16599	29617	0.93	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
3833	16993	28996	0.6	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
4283	17428	30418	2.92	3.0E-75	D87675.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
5385	18658	31494	1.15	3.0E-75	11420956	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
							Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5365	18588	31435	1.15	3.0E-75	11420956	NT	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
6637	19795	33185	0.59	3.0E-75	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
6637	19796	33186	0.59	3.0E-75	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
6809	20224	33654	1.57	3.0E-75	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
6809	20224	33655	1.57	3.0E-75	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
7285	20368	33821	4.12	3.0E-75	7662209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7285	20368	33822	4.12	3.0E-75	7662209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7800	20856	34346	2.66	3.0E-75	4885632	NT	Homo sapiens Oncogene TIM (TIM) mRNA
7800	20856	34347	2.66	3.0E-75	4885632	NT	Homo sapiens Oncogene TIM (TIM) mRNA
9185	22263	35805	1.33	3.0E-76	11420804	NT	Homo sapiens Drosophila kelch like protein (DKELCHL), mRNA
8880	22920	36504	0.83	3.0E-75	11420222	NT	Homo sapiens Drosophila kelch like protein (DKELCHL), mRNA
5790	18982		1.34	2.0E-75	AV734680.1	EST_HUMAN	AV734680 cDNA Homo sapiens cDNA clone IMAGE:1915898 3' similar to TR:Q66386 Q66386
8950	22029	35570	1.36	2.0E-75	A1311783.1	EST_HUMAN	q681502.x1 NCI CGAP_K055 Homo sapiens cDNA clone IMAGE:2632707 3' similar to contigs PTR7.11
2377	15308	28635	10.98	1.0E-75	AW168135.1	EST_HUMAN	RG60402.x1 NCI CGAP_U14 Homo sapiens cDNA clone IMAGE:2632707 3' similar to contigs PTR7.11
3012	16186	29213	2.95	1.0E-75	X62221.1	NT	PTR7 repetitive element;
7762	20821	34311	0.64	1.0E-75	BE082528.1	EST_HUMAN	H. sapiens ERCC2 gene, exons 1 & 2 (partial)
7762	20821	34312	0.64	1.0E-75	BE082528.1	EST_HUMAN	RC5-BT0640-020300-031-H03 BT0640 Homo sapiens cDNA
8609	21689		3.12	1.0E-75	AA399270.1	EST_HUMAN	RC5-BT0640-020300-031-H03 BT0640 Homo sapiens cDNA
9628	22683	36253	3.95	1.0E-75	BF313845.1	EST_HUMAN	RC5-BT0640-020300-031-H03 BT0640 Homo sapiens cDNA
9628	22683	36254	3.95	1.0E-75	BF313845.1	EST_HUMAN	RC5-BT0640-020300-031-H03 BT0640 Homo sapiens cDNA
11122	24194		6.68	1.0E-75	AA684377.1	EST_HUMAN	257703.s1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:728485 3' similar to gb:U13932.40S
11351	24413	36097	2.22	1.0E-75	AF223391.1	NT	257703.s1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:728485 3' similar to gb:U13932.40S
12440	18502	31538	1.97	1.0E-75	BE684192.1	EST_HUMAN	RIBOSOMAL PROTEIN S17 (HUMAN);
45	13284	26292	0.89	9.0E-76	AI652948.1	EST_HUMAN	RIBOSOMAL PROTEIN S17 (HUMAN);
45	13284	26293	0.89	9.0E-76	AI652948.1	EST_HUMAN	RIBOSOMAL PROTEIN S17 (HUMAN);
2483	15613		0.94	9.0E-76	AA702415.1	EST_HUMAN	RIBOSOMAL PROTEIN S17 (HUMAN);

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10105	23143	36741	5.44	9.0E-76	M12837.1	NT	Human ferritin Heavy subunit mRNA, complete cds
961	14134	27194	1.18	8.0E-76	4504374	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
961	14134	27194	1.18	8.0E-76	4504374	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
2978	16162	29173	0.95	8.0E-76	7700724	NT	Homo sapiens mediator (Sur2), mRNA
6300	19473	32828	5.84	8.0E-76	11421442	NT	Homo sapiens LIM domain kinase 1 (LIMK1), mRNA
7658	20725	34200	1.17	8.0E-76	11435215	NT	Homo sapiens serine/threonine kinase 2 (STK2), mRNA
7739	20800	34289	1.05	8.0E-76	11418212	NT	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
8482	21573	35110	0.89	8.0E-76	11418961	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
10589	23624	37231	1.26	8.0E-76	M13792.1	NT	Human adenosine deaminase (ADA) gene, complete cds
10803	23987	37619	4.29	8.0E-76	10442821	NT	Homo sapiens baculoviral IAP repeat-containing 8 (BIRC8), mRNA
12824	25550		2.51	8.0E-76	11417882	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
797	13976	27029	1.89	7.0E-76	6016092	NT	Homo sapiens dihydrolipoamide dehydrogenase (E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid dehydrogenase complex) (DLD) mRNA
5366	16639	29651	3.84	7.0E-76	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
3372	18544	29658	9.08	7.0E-76	4505052	NT	Homo sapiens lymphocyte antigen 75 (LY75) mRNA, and translated products
4497	17631	30612	5.52	7.0E-76	4507184	NT	Homo sapiens septaplatin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase) (SPR) mRNA
4491	17631	30613	5.52	7.0E-76	4507184	NT	Homo sapiens septaplatin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase) (SPR) mRNA
1262	14419		37.29	6.0E-76	BE396253.1	EST_HUMAN	601312019F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658757 5'
11763	26839	37565	2.52	6.0E-76	BE273201.1	EST_HUMAN	601142253F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506029 5'
1897	15138	28243	9.61	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
1897	15138	28244	9.61	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
1897	15138	28245	9.61	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
3278	18452	29473	0.84	4.0E-76	BE814098.1	EST_HUMAN	QV3-BN0047-270700-283-p06 BN0047 Homo sapiens cDNA
5384	18586	31455	1.13	4.0E-76	BE783412.1	EST_HUMAN	601471728F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874470 5'
10230	23285	36854	5.48	4.0E-76	D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (Tfujwara) Homo sapiens cDNA clone GEN-178G01 5'
10230	23285	36855	5.48	4.0E-76	D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (Tfujwara) Homo sapiens cDNA clone GEN-178G01 5'
646	13831	26856	2.01	3.0E-76	BF516282.1	EST_HUMAN	UH-HBW1-enz-b-04-Q-U1.s1 NCJ_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
646	13831	26857	2.01	3.0E-76	BF516282.1	EST_HUMAN	UH-HBW1-enz-b-04-Q-U1.s1 NCJ_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
1829	14781	27866	8.04	3.0E-76	4503476	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
1629	14781	27867	8.04	3.0E-76	4503476	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
3515	16681	29691	5.75	3.0E-76	BF375689.1	EST_HUMAN	RC5-ST0300-180100-033-A03 ST0300 Homo sapiens cDNA
3515	16681	29692	5.75	3.0E-76	BF375689.1	EST_HUMAN	RC6-ST0300-180100-033-A03 ST0300 Homo sapiens cDNA
5352	18480	38822	1.82	3.0E-76	Z41314.1	EST_HUMAN	HSCZQD042 normalized infant brain cDNA Homo sapiens cDNA clone c-zqpd04 3'

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5851	18041	32347	0.92	3.0E-76	AA160611.1	EST_HUMAN	z073c07.1 Stratagene pancreas (#837208) Homo sapiens cDNA clone IMAGE:592524 5' similar to
6110	16220	32625	0.61	3.0E-76	AW027705.1	EST_HUMAN	gbL32978 MIXED LINEAGE KINASE 1 (HUMAN);
6408	19584	33027	8.19	3.0E-76	AF286598.1	NT	vv75c05.x1 Soares (fymus_NHT) Homo sapiens cDNA clone IMAGE:25535368 3'
8344	21425	34951	1.27	3.0E-76	N42671.1	EST_HUMAN	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
9917	22957	36544	3.03	3.0E-76	AW269553.1	EST_HUMAN	y20g10.1 Soares melanocyte 2NtHM Homo sapiens cDNA clone IMAGE:271842 5'
9942	22981	36572	1.08	3.0E-76	AA442309.1	EST_HUMAN	xs49H01.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2773009 3'
9942	22981	36573	1.08	3.0E-76	AA442309.1	EST_HUMAN	zr54d11.1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:757461 5'
12144	26943	31763	2.1	3.0E-76	AW867984.1	EST_HUMAN	zr54d11.1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:757461 5'
12251	28184	31542	6.95	3.0E-76	AW598455.1	EST_HUMAN	EST380069 MAGE resequences, MAGE Homo sapiens cDNA
292	13509	26544	1.11	2.0E-76	D84295.1	NT	EST386825 MAGE resequences, MAGE Homo sapiens cDNA
352	13663	26590	3.21	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
352	13663	26591	3.21	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
473	13668	26812	1.07	2.0E-76	4557662	NT	Human mRNA for possible protein TPRDII, complete cds
603	13792	27281	1.69	2.0E-76	4758053	NT	Homo sapiens immunoglobulin (CD79A) binding protein 1 (IGBP1) mRNA
1058	14222	27799	11.31	2.0E-76	4504028	NT	Homo sapiens glucagon (GCG) mRNA
1568	14719	27800	11.31	2.0E-76	4504028	NT	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA
1982	15125	28227	0.89	2.0E-76	AA253564.1	EST_HUMAN	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA
2904	16082	29087	2.13	2.0E-76	P23266	SWISSPROT	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA
3369	16541	29555	2.21	2.0E-76	AA445992.1	EST_HUMAN	z50h11.1 Stratagene ethio brain S11 Homo sapiens cDNA clone IMAGE:701825 3'
3369	16541	29556	2.21	2.0E-76	AA445992.1	EST_HUMAN	OLFACTORY RECEPTOR-LIKE PROTEIN F8
3665	16730	29748	0.93	2.0E-76	A1821149.1	EST_HUMAN	zr64e02.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:780986 3' similar to SW:ITB5_HUMAN
4254	13509	26544	1.01	2.0E-76	D84295.1	NT	P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR ;
4653	17789	30773	0.91	2.0E-76	AL163283.2	EST_HUMAN	zr64e02.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:780986 3' similar to SW:ITB5_HUMAN
5062	18190	31165	11.15	2.0E-76	AW879618.1	EST_HUMAN	P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR ;
5163	18285	31249	3.13	2.0E-76	6174586	NT	ac83b02.y6 Stratagene lung (#837210) Homo sapiens cDNA clone IMAGE:869163 5' similar to TR:O14591
5424	18625	32228	2.99	2.0E-76	AF127845.1	NT	014591 SIMILARITY TO P22059 ;
5736	18929	34118	0.66	2.0E-76	11421326	NT	Human mRNA for possible protein TPRDII, complete cds
7570	20642	34119	0.66	2.0E-76	11426908	NT	Homo sapiens chromosome 21 segment HS21C083
7592	20683	34139	0.69	2.0E-76	11426908	NT	Homo sapiens chromosome 21 segment HS21C083

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7840	20895	34397	1.82	2.0E-76	11427410	NT	Homo sapiens TPCRB8 protein (HSTPCR88P), mRNA
10489	23524	37134	1.42	2.0E-76	11437211	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63160), mRNA
11161	24232	37862	2.44	2.0E-76	7549807	NT	Homo sapiens HIRA Interacting protein 4 (dnaj-like) (HIRIP4), mRNA
4412	17554	30639	2.49	1.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
4412	17554	30540	2.49	1.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
5564	18761	31801	5.93	1.0E-76	BE796637.1	EST_HUMAN	Human mRNA for HMG-1, complete cds
6374	19543		0.7	1.0E-76	AA333207.1	EST_HUMAN	EST37301 Embryo, 8 week Homo sapiens cDNA clone IMAGE:3944302 5'
7063	20116	33530	4.66	9.0E-77	BE886525.1	EST_HUMAN	601512435F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913737 5'
13003	26652		1.98	9.0E-77	BE410354.1	EST_HUMAN	601302333F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636753 5'
192	19414	28443	0.77	8.0E-77	R83144.1	EST_HUMAN	Yp1102.1 Soares breast 3NblBst Homo sapiens cDNA clone IMAGE:187155 5' similar to SP-ANKB_HUMAN Q01494:ANKYRIN, BRAIN VARIANT 1:
4644	17780	30762	1.41	8.0E-77	BF205181.1	EST_HUMAN	601856926F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4109503 5'
5589	18768	31807	1.37	8.0E-77	4506230	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 7 (Mox44 homolog) (PSMD7) mRNA
11689	24748	38438	1.78	8.0E-77	AA019770.1	EST_HUMAN	ze02e02.1 Soares retina N2b-4f-HR Homo sapiens cDNA clone IMAGE:363578 5'
11689	24746	38439	1.78	8.0E-77	AA019770.1	EST_HUMAN	ze02e02.1 Soares retina N2b-4f-HR Homo sapiens cDNA clone IMAGE:363578 5'
12879	25637	31982	32.5	8.0E-77	R00245.1	EST_HUMAN	ye0304. s1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:123007 3' similar to contains MER10 repetitive element:
1983	15126	28228	2.2	7.0E-77	AA625755.1	EST_HUMAN	zu01g01.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:745392 3'
2492	15609	28793	2.78	7.0E-77	4505944	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (25kD) (POLR2E) mRNA
2482	15609	28794	2.78	7.0E-77	4505944	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (25kD) (POLR2E) mRNA
273	13491	28522	4	6.0E-77	4504800	NT	Homo sapiens interferon (alpha, beta and omega) receptor 2 (IFNAR2) mRNA
1165	14329	27394	1.05	6.0E-77	AW957753.1	EST_HUMAN	Homo sapiens interferon (alpha, beta and omega) receptor 2 (IFNAR2) mRNA
1574	14727	27808	3.29	6.0E-77	AI204086.1	EST_HUMAN	EST1368823 MAGE resequences, MAGE Homo sapiens cDNA
1284	14421	27488	2.89	5.0E-77	AF041015.1	NT	qe77h12.x1 Soares fetal lung NBHL19W Homo sapiens cDNA clone IMAGE:1745063 3'
1391	14545	27621	3.48	5.0E-77	4557250	NT	7 Homo sapiens glucokinase (GCK) gene, exon 2
2749	15866	28977	1.76	5.0E-77	AF162693.1	NT	Homo sapiens disintegrin and metalloprotease domain 10 (ADAM10) mRNA
2822	15336	28046	1.58	5.0E-77	4503160	NT	Homo sapiens toulou-like kinase 1 (TLK1) mRNA, complete cds
3611	16775	28791	0.65	5.0E-77	8394518	NT	Homo sapiens cullin 1 (CUL1) mRNA
4825	17958	30944	0.97	5.0E-77	5031660	NT	Homo sapiens ubiquitin specific protease 18 (USP18), mRNA
4825	17958	30945	0.97	5.0E-77	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
5052	18180	31156	3.57	5.0E-77	ALD43953.1	EST_HUMAN	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
6822	20237	33671	0.65	5.0E-77	MT13975.1	NT	DKFZp434G1728.J1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434G1728 5'
7480	20555	34027	0.59	5.0E-77	X98286.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
							H. sapiens mRNA for ubiquitin hydrolase

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7767	20555	34027	0.72	5.0E-77	X98286.1	NT	H. sapiens mRNA for ubiquitin hydrolase
8563	21644	35183	1.21	5.0E-77	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
8563	21644	35184	1.21	5.0E-77	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
9769	22765	36335	2.61	5.0E-77	11421828	NT	Homo sapiens sorting nexin 5 (SNX5), mRNA
9769	22765	36336	2.61	5.0E-77	11421828	NT	Homo sapiens sorting nexin 5 (SNX5), mRNA
10708	23741	37346	0.97	5.0E-77	AB002287.1	NT	Human mRNA for KIAA0289 gene, partial cds
10708	23741	37347	0.97	5.0E-77	AB002287.1	NT	Human mRNA for KIAA0289 gene, partial cds
2029	15170	28277	1.39	3.0E-77	5730038	NT	Homo sapiens SET domain and nuclear transposase fusion gene (SETMAR) mRNA
2029	15170	28278	1.39	3.0E-77	5730038	NT	Homo sapiens SET domain and nuclear transposase fusion gene (SETMAR) mRNA
10498	23531	37139	0.9	3.0E-77	H65187.1	EST_HUMAN	Homo sapiens Olfactory Epithelium Homo sapiens cDNA clone IMAGE:238608 5' similar to y64g01.11 Weizmann Olfactory Epithelium Homo sapiens cDNA clone IMAGE:238608 5' similar to SP-S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 -;
10498	23531	37140	0.8	3.0E-77	H65187.1	EST_HUMAN	y64g01.11 Weizmann Olfactory Epithelium Homo sapiens cDNA clone IMAGE:238608 5' similar to SP-S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 -;
11115	24187	37819	2.83	3.0E-77	BF359917.1	EST_HUMAN	PM3-MT0078-080800-005-g03 MT0078 Homo sapiens cDNA
1383	14538	27612	1.74	2.0E-77	AV764817.1	EST_HUMAN	AV764817 MDS Homo sapiens cDNA clone MDSBTF10 5'
1464	14818	27702	9.74	2.0E-77	AW997712.1	EST_HUMAN	RC3-BN0053-170200-011-101 BN0053 Homo sapiens cDNA
2157	15283	28419	1.1	2.0E-77	L41825.1	NT	Homo sapiens CYP17 gene, 5' end
2170	15305	28432	2.75	2.0E-77	7706315	NT	Homo sapiens CGI-79 protein (LOC51634), mRNA
2659	16087	28895	1.89	2.0E-77	AB037839.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2659	16087	28896	1.89	2.0E-77	AB037839.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
4143	17295	30287	1.98	2.0E-77	BE044918.1	EST_HUMAN	h043505.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3040113 3' similar to SW:GAG2_HUMAN P10284 RETROVIRUS-RELATED GAG POLYPROTEIN;
4534	17872	30856	0.67	2.0E-77	A013519.1	EST_HUMAN	h043505.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
4534	17872	30857	0.67	2.0E-77	A013519.1	EST_HUMAN	h043505.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
4534	17872	30857	0.67	2.0E-77	A013519.1	EST_HUMAN	h043505.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2260468 3' similar to TR:O65245
4891	18021	31006	2.34	2.0E-77	AA653026.1	EST_HUMAN	ns68g12.s1 NCI_CGAP_P12 Homo sapiens cDNA clone IMAGE:1188838 similar to SW:FL29_HUMAN P47914 60S RIBOSOMAL PROTEIN L29. [1] contains element MSR1 repetitive element;
6075	19257	32588	2.08	2.0E-77	BE298940.1	EST_HUMAN	601118852F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029496 5'
6301	19474	32829	1.86	2.0E-77	BE787143.1	EST_HUMAN	601476802F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3879505 5'
7326	20407	33869	16.02	2.0E-77	A013519.1	EST_HUMAN	601476802F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:2377720 3' similar to TR:Q13311
7326	20407	33869	16.02	2.0E-77	A013519.1	EST_HUMAN	Q13311 TAX1-BINDING PROTEIN TXBP151. [1];

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8728	21806	36343	0.86	2.0E-77	AI362707.1	EST_HUMAN	q770c09.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2017390 3' similar to WP.F28D11.1
9728	22793	36366	6.88	2.0E-77	U50321.1	NT	CE05766 LOW DENSITY LIPID RECEPTOR-RELATED PROTEIN ;
9728	22793	36367	5.68	2.0E-77	U50321.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7
10189	23236	36826	0.47	2.0E-77	BF310349.1	EST_HUMAN	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7
10189	23236	36828	0.47	2.0E-77	BF310349.1	EST_HUMAN	601895183F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124541 5'
44	13282	26288	2.62	1.0E-77	AB033102.1	NT	601895183F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124541 5'
44	13282	26289	2.62	1.0E-77	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
283	13501	26533	1.88	1.0E-77	4502166	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
283	13601	26534	1.68	1.0E-77	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
888	16025	27140	3.4	1.0E-77	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
888	16025	27141	3.4	1.0E-77	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1969	15112	28213	1.36	1.0E-77	AW058119.1	EST_HUMAN	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
2515	15641	28763	1.17	1.0E-77	AB023024.1	NT	wk63e05.x1 Soares_thymus_NH1FTh Homo sapiens cDNA clone IMAGE:2536160 3'
3110	16288	29300	2.28	1.0E-77	4503300	NT	Homo sapiens mRNA for KIAA1101 protein, complete cds
4473	17613	30592	4.24	1.0E-77	7706239	NT	Homo sapiens 2,4-dienoyl CoA reductase 1, mitochondrial (DECR1), mRNA
4646	17782	30704	22.17	1.0E-77	AJ223041.1	NT	Homo sapiens CGI-60 protein (LOC51628), mRNA
4774	17909	30892	2.05	1.0E-77	6552322	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 1/3
4815	17948	30933	0.61	1.0E-77	AI273014.1	EST_HUMAN	Homo sapiens breast cancer 1, early onset (BRCA1), transcript variant BRCA1-exon4, mRNA
6051	19233	32557	1.48	1.0E-77	AF086944.1	NT	q705g04.x1 NCI_CGAP_Ki68 Homo sapiens cDNA clone IMAGE:1981110 3'
6051	19233	32558	1.48	1.0E-77	AF086944.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28
6172	19348	32694	1.72	1.0E-77	M25844.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28
6577	19739	33120	1.1	1.0E-77	4885182	NT	Human von Willebrand factor gene, exon 20
7198	20063	33473	15.97	1.0E-77	5881412	NT	Homo sapiens diaphanous (Drosophila, homolog) 1 (DIAPH1), mRNA
7944	20699	34402	0.82	1.0E-77	11420159	NT	Homo sapiens elastin (supravalvular aortic stenosis, Williams-Beuren syndrome) (ELN), mRNA
7940	20990	34500	0.71	1.0E-77	X04571.1	NT	Homo sapiens cullin 1 (CUL1), mRNA
8465	22522	36085	0.83	1.0E-77	X94354.1	NT	Human mRNA for kidney epidermal growth factor (EGF) precursor
8465	22522	36086	0.83	1.0E-77	X94354.1	NT	H. sapiens DNA for Cere cGMP-PDE gene
10742	23775	37387	1.05	1.0E-77	AB029396.1	NT	H. sapiens DNA for Cere cGMP-PDE gene
10742	23775	37388	1.05	1.0E-77	AB029396.1	NT	Homo sapiens hu-GlcAT-P mRNA for glucuronyltransferase, complete cds
10742	23775	37388	1.05	1.0E-77	AB029396.1	NT	Homo sapiens hu-GlcAT-P mRNA for glucuronyltransferase, complete cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10773	23808	37429	2.76	9.0E-78	AW763302.1	EST_HUMAN	RC3-CT0254-280989-011-b05 CT0254 Homo sapiens cDNA
6576	19738	33118	2.29	8.0E-78	AW947061.1	EST_HUMAN	RC2-ET0023-080500-012-e05 ET0023 Homo sapiens cDNA
6576	19738	33119	2.29	8.0E-78	AW947061.1	EST_HUMAN	RC2-ET0023-080500-012-e05 ET0023 Homo sapiens cDNA
88	13323	26351	1.89	6.0E-78	AU118789.1	EST_HUMAN	AU118789 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5'
88	13323	26352	1.66	6.0E-78	AU118789.1	EST_HUMAN	AU118789 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5'
3389	16559	26574	0.9	6.0E-78	BF344101.1	EST_HUMAN	602016928F1 NCI CGAP_Bim64 Homo sapiens cDNA clone IMAGE:4152511 5'
6630	19848		2.54	6.0E-78	11432710	NT	Homo sapiens GDNF family receptor alpha 1 (GFRAL1), mRNA
224	13448	26474	6.13	5.0E-78	11422486	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
2829	15752	28887	6.71	5.0E-78	AW673424.1	EST_HUMAN	ba64H03.y6 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800405 5' similar to WP:Y48B6A.6
3472	16639	29859	5.09	5.0E-78	M55586.1	NT	CE22121
5528	18725	31741	2.73	5.0E-78	AF038536.1	NT	Human collagenase type IV (CLG4) gene, exon 8
5903	18887	32177	18.13	6.0E-78	11418595	NT	Homo sapiens Bos'se muscular dystrophy related protein mRNA, partial cds
7304	20388	33848	2.18	5.0E-78	AW963120.1	EST_HUMAN	Homo sapiens transforming growth factor, beta-induced, 98kD (TGFB1), mRNA
9284	22360	35910	7.02	5.0E-78	U60889.1	NT	EST365180 MAGE resequences, MAGB Homo sapiens cDNA
9285	22361	35911	2.94	5.0E-78	BE960836.1	EST_HUMAN	Human lysosomal alpha-mannosidase (manb) gene, exon 7
1160	14324	27378	1.29	4.0E-78	AL043314.2	EST_HUMAN	601648061F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:3631887 5'
1947	14699	27778	1.81	4.0E-78	AL355941.1	NT	DKFZp434N0323_J1 434 (synonym: hntss) Homo sapiens cDNA clone DKFZp434N0323 5'
2392	15523	28652	6.1	4.0E-78	AF107403.1	NT	Novel human gene mapping to chromosome 22
4442	17582	30560	6.17	4.0E-78	7856876	NT	Homo sapiens pre-mRNA splicing factor (SFRS3) mRNA, complete cds
4896	18026	31012	1.2	4.0E-78	4505806	NT	Homo sapiens syncytin (LOC30816), mRNA
4898	18028	31013	1.2	4.0E-78	4505806	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
5988	18076	32385	1.25	4.0E-78	11420732	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
6302	19475	32830	0.71	4.0E-78	7862109	NT	Homo sapiens SFRS3 protein kinase 2 (SFRPK2), mRNA
6302	19475	32831	0.71	4.0E-78	7862109	NT	Homo sapiens KIAA0426 gene product (KIAA0426), mRNA
6703	19861	33251	0.74	4.0E-78	4506736	NT	Homo sapiens KIAA0426 gene product (KIAA0426), mRNA
7660	20727	34203	0.89	4.0E-78	4506736	NT	Homo sapiens ribosomal protein S8 kinase, 70kD, polypeptide 1 (RPS8KB1) mRNA
9054	22133	35677	1.15	4.0E-78	AF012872.1	NT	Homo sapiens ribosomal protein S8 kinase, 70kD, polypeptide 1 (RPS8KB1) mRNA
9054	22133	35678	1.15	4.0E-78	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
9568	22710	36278	0.61	4.0E-78	11417251	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
10660	23694	37303	1.95	4.0E-78	11560151	NT	Homo sapiens X-ray repair complementing defective repair in Chinese hamster cells 4 (XRCC4), mRNA
10660	23694	37304	1.95	4.0E-78	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
11705	24702	38394	1.84	4.0E-78	AF169148.1	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11854	24842	38538	6.72	4.0E-78	X05844.1	NT	Human transforming growth factor-beta precursor gene exons 4-5 (and joined mature peptide)
12855	26568	31897	3.93	4.0E-78	AB011389.1	NT	Homo sapiens gene for AIF-8, complete cds
166	13390	28417	1.89	3.0E-78	AF085901.1	NT	Homo sapiens eRF1 gene, complete cds
165	13390	28418	1.89	3.0E-78	AF085901.1	NT	Homo sapiens eRF1 gene, complete cds
2488	15615	28736	1.01	3.0E-78	7706705	NT	Homo sapiens SH3 and PX domain-containing protein SH3PX1 (SH3PX1), mRNA
3860	17020		0.81	3.0E-78	AU140804.1	EST_HUMAN	AU140804 PLACE3 Homo sapiens cDNA clone PLACE3000373 5'
3918	17077	30074	0.78	3.0E-78	4507334	NT	Homo sapiens synaptophysin 1 (SYNJ1), mRNA
4221	17077	30074	0.82	3.0E-78	4507334	NT	Homo sapiens synaptophysin 1 (SYNJ1), mRNA
10493	23628		5.44	3.0E-78	BE144758.1	EST_HUMAN	GMO-HT0180-041099-065-c07 HT0180 Homo sapiens cDNA
11227	24296	37837	2.5	3.0E-78	BE156318.1	EST_HUMAN	QV0-HT0367-160200-114-g09 HT0367 Homo sapiens cDNA
3191	16366		2.49	2.0E-78	U04489.1	NT	Homo sapiens type IV collagen alpha 5 chain (COL4A5) gene, exon 20
4122	17276		1.09	2.0E-78	AA311872.1	EST_HUMAN	EST182583 Jurkat T-cells VI Homo sapiens cDNA 5' end
7631	20700	34177	1.09	2.0E-78	AW402306.1	EST_HUMAN	U-HIF-BKO-eaf-g-10-Q-JL1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3054139 5'
7631	20700	34178	1.09	2.0E-78	AW402306.1	EST_HUMAN	U-HIF-BKO-eaf-g-10-Q-JL1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3054139 5'
7808	20860	34466	3.38	2.0E-78	BF089800.1	EST_HUMAN	602186528F1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4288589 5'
8230	21312	34832	2.49	2.0E-78	AV714177.1	EST_HUMAN	AV714177 DCB Homo sapiens cDNA clone DCBAWFO9 5'
8646	21726	35282	1.72	2.0E-78	AI557509.1	EST_HUMAN	P12.1_16_B07.tumor2 Homo sapiens cDNA 3'
8646	21726	35283	1.72	2.0E-78	AI557509.1	EST_HUMAN	P12.1_16_B07.tumor2 Homo sapiens cDNA 3'
11336	24389	38048	9.58	2.0E-78	A197837.1	EST_HUMAN	q50h05x1 NCL CGAP_Bm26 Homo sapiens cDNA clone IMAGE:1859961 3' similar to WP.R80.1
11358	24420		1.47	2.0E-78	BE439409.1	EST_HUMAN	CE06325 PROTEIN KINASE ;
11386	24447	38108	3.01	2.0E-78	N68951.1	EST_HUMAN	HTM1-025F1 HTM1 Homo sapiens cDNA
6420	18621	31597	3.18	1.0E-78	11417304	NT	z848H12.s1 Soares fetal liver spleen TNF1L5 Homo sapiens cDNA clone IMAGE:298823 3'
7094	18521	31514	0.82	1.0E-78	AV648698.1	EST_HUMAN	Homo sapiens GAP-like protein (LOC61306), mRNA
8353	21434		1.81	1.0E-78	U52373.1	NT	AV648698 GLC Homo sapiens cDNA clone GLCBM001 3'
12324	25234	32107	1.83	1.0E-78	11430460	NT	Human serine/threonine kinase MNIB (mnib) mRNA, complete cds
12422	25236	32086	2.44	1.0E-78	11435903	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
4820	17853	30838	4.04	9.0E-79	11525891	NT	Homo sapiens similar to lymphocyte activation-associated protein (H. sapiens) (LOC63140), mRNA
4998	18115	31083	1.6	9.0E-79	BE000837.1	EST_HUMAN	Homo sapiens peptide YY (PYY), mRNA
5549	18746	31781	16.98	9.0E-79	AB028070.1	NT	RC2-BN0074-090300-014-o12 BN0074 Homo sapiens cDNA
6470	18637	32996	2.52	9.0E-79	6454145	NT	Homo sapiens mRNA for activator of S phase Kinase, complete cds
6752	18608	33301	0.98	9.0E-79	11430822	NT	Homo sapiens ubiquitin-conjugating enzyme E2E 3 (homologous to yeast UBC4/5) (UBE2E3) mRNA
							Homo sapiens hypothetical protein FLJ11294 (FLJ11294), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7505	25848		0.89	9.0E-79	11424427	NT	Homo sapiens hypothetical protein FLJ20345 (FLJ20345), mRNA
7748	20808	34298	0.63	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS165L15.1), mRNA
7748	20808	34298	0.63	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS165L15.1), mRNA
8541	21622	35158	0.52	9.0E-79	11417260	NT	Homo sapiens threonyl-RNA synthetase (TARS), mRNA
8541	21622	35158	0.52	9.0E-79	11417260	NT	Homo sapiens threonyl-RNA synthetase (TARS), mRNA
9263	22340	35880	4.78	9.0E-79	J02853.1	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
9263	22340	35881	4.78	9.0E-79	J02853.1	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
9580	22722	36282	0.66	9.0E-79	D67675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10574	23609	37214	0.82	9.0E-79	11438843	NT	Homo sapiens hypothetical protein FLJ20535 (FLJ20535), mRNA
10632	23666	37274	1.05	9.0E-79	AF062346.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216), mRNA, complete cds
10632	23666	37275	1.05	9.0E-79	AF062346.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216), mRNA, complete cds
11322	24385	38028	1.51	9.0E-79	AY008273.1	NT	Homo sapiens TRAF6-regulated IKK activator 1 beta Uev1A mRNA, complete cds
11802	24782	38489	2.94	9.0E-79	11423827	NT	Homo sapiens suppressor of white apical homolog 2 (SWAP2), mRNA
11802	24782	38489	2.94	9.0E-79	11423827	NT	Homo sapiens suppressor of white apical homolog 2 (SWAP2), mRNA
13088	25711	31867	1.4	9.0E-79	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
3836	18996	29998	1.18	8.0E-79	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
3326	18498	28516	6.38	7.0E-79	BE818648.1	EST_HUMAN	601472766T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875657
8844	21923		0.62	8.0E-79	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C048
12169	25132		5.44	8.0E-79	AA598828.1	EST_HUMAN	TR:Q15408 Q15408 NEUTRAL PROTEASE LARGE SUBUNIT ;
11786	24776	38473	3.63	5.0E-79	AL163262.2	NT	Homo sapiens chromosome 21 segment HS21C082
323	13537	26569	1.74	3.0E-79	AF114488.1	NT	Homo sapiens interseofin short isoform (ITSN) mRNA, complete cds
1001	14172	27293	1.22	3.0E-79	AF232708.1	NT	Homo sapiens cell-line tsA201a chloride ion current inducer protein I(Clh) gene, complete cds
3189	16343	28351	1.74	3.0E-79	U09410.1	NT	Human zinc finger protein ZNF131 mRNA, partial cds
5477	18676	31689	7.05	3.0E-79	AF110322.1	NT	Homo sapiens MSTP016 (MST016) mRNA, complete cds
5841	19037	32937	1.59	3.0E-79	AB020699.1	NT	Homo sapiens mRNA for KIAA0892 protein, partial cds
5866	19059	32363	0.93	3.0E-79	BE789470.1	EST_HUMAN	601482143F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884554 5'
5866	19059	32364	0.93	3.0E-79	BE789470.1	EST_HUMAN	601482143F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884554 5'
5869	19077	32368	3.87	3.0E-79	11426770	NT	Homo sapiens netrin 1 (NTN1), mRNA
5869	19077	32367	3.87	3.0E-79	11426770	NT	Homo sapiens netrin 1 (NTN1), mRNA
6884	20036	33445	0.84	3.0E-79	BE256893.1	EST_HUMAN	601112055F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352885 5'
7206	20071	33481	2.58	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
7206	20071	33482	2.58	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
8012	21062	34574	0.87	3.0E-79	6912455	NT	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8558	21439	34961	0.78	3.0E-79	AF248273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
8603	22658	36230	0.59	3.0E-79	10835036	NT	Homo sapiens tetrairicopeptide repeat domain 3 (TTCS), mRNA
10555	23580		0.62	3.0E-79	AY688115.1	EST_HUMAN	AY688115 GK/C Homo sapiens cDNA clone GKCAH111 5'
288	13515		1.4	2.0E-79	H63128.1	EST_HUMAN	Y48103.s1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:208541 3'
651	13837	26884	1.06	2.0E-78	BE379826.1	EST_HUMAN	601159415F2 NIH_MGC 53 Homo sapiens cDNA clone IMAGE:3511107 5'
951	14124	27186	1.14	2.0E-78	4757841	NT	Homo sapiens BCL2-like 2 (BCL2L2) mRNA
1007	14178	27239	4.97	2.0E-78	4885234	NT	Homo sapiens Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog (FGR) mRNA
1007	14178	27240	4.97	2.0E-78	4885234	NT	Homo sapiens Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog (FGR) mRNA
1000	14226		2.15	2.0E-79	A1523747.1	EST_HUMAN	th18107.x1 NC1 CGAP_P728 Homo sapiens cDNA clone IMAGE:2118685 3'
2215	15349	28478	6.17	2.0E-79	4585963	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2216	15349	28527	6.17	2.0E-79	4585963	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2286	16389	28478	1.35	2.0E-79	AJ271408.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
2387	15518	28648	1.1	2.0E-79	AF244138.1	NT	Homo sapiens hepatocellular carcinoma-associated antigen 88 (HICA88) mRNA, complete cds
2780	18096	29008	1.2	2.0E-79	AB023134.1	NT	Homo sapiens mRNA for KIAA0937 protein, partial cds
4023	17179	30188	0.68	2.0E-79	AF170492.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
4280	17425	30414	1.25	2.0E-79	AJ271408.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
4813	17946	30631	0.83	2.0E-78	AL163206.2	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
5788	18960		1.06	2.0E-78	AA312223.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C008
5844	19034	32840	0.9	2.0E-78	11181768	NT	EST182928 Jurkat T-cells V1 Homo sapiens cDNA 5' end similar to C. elegans hypothetical protein, cosmid BQ303.15
6373	18542	32901	1.19	2.0E-79	AB020637.1	NT	Homo sapiens X transporter protein 3 (XT3), mRNA
7100	18527	31519	0.89	2.0E-79	AF283613.1	NT	Homo sapiens mRNA for KIAA0830 protein, partial cds
7317	20399	33861	2.09	2.0E-79	7382479	NT	Homo sapiens membrane-associated calcium-independent phospholipase A2 gamma mRNA, complete cds
7317	20399	33862	2.09	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
8282	21374	34884	1.1	2.0E-78	4506442	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
8714	21794	35331	2.13	2.0E-78	11427428	NT	Homo sapiens retinoblastoma-like 1 (p107) (RBL1) mRNA
8865	22044	35587	0.55	2.0E-78	8923248	NT	Homo sapiens retinoblastoma-like 1 (p107) (RBL1) mRNA
8965	22044	35598	0.55	2.0E-78	8923248	NT	Homo sapiens hypothetical protein FLJ11006 (FLJ11006), mRNA
9205	22283	35823	0.69	2.0E-78	11432184	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
10297	23332	36935	1.98	2.0E-79	S72869.1	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
10297	23332	36936	1.98	2.0E-79	S72869.1	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
11284	24350	37987	2.94	2.0E-79	BE064386.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
							Homo sapiens similar to ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) membrane sector associated protein M8-9 (h. sapiens) (LOC63961), mRNA
							H4(D10S170)-putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
							H4(D10S170)-putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
							RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11284	24350	37988	2.94	2.0E-79	BE064388.1	EST_HUMAN	RC4-BT0310-110300-015-F10 BT0310 Homo sapiens cDNA
12208	18498	31634	4.27	2.0E-79	7652357	NT	Homo sapiens KIAA0879 protein (KIAA0879), mRNA
12208	25219	32100	2.3	2.0E-79	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
12531	25362	32067	3.08	2.0E-79	11418322	NT	Homo sapiens cathepin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
6718	25830		3.28	1.0E-79	BF363071.1	EST_HUMAN	Homo sapiens cathepin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
6833	19986	33394	0.65	1.0E-79	AI613480.1	EST_HUMAN	MRO-NN0087-280800-017-510 NN0087 Homo sapiens cDNA
6833	19986	33395	0.65	1.0E-79	AI613480.1	EST_HUMAN	TEKTN C1.1
8439	21520	35049	0.9	1.0E-79	BE394211.1	EST_HUMAN	TEKTN C1.1
11922	24908	38809	1.9	1.0E-79	BF087403.1	EST_HUMAN	601311517F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632909 5'
12326	26107		1.44	1.0E-79	AA60115.1	EST_HUMAN	QV2-HT0540-120900-358-a05 HT0540 Homo sapiens cDNA
3215	10389	28399	6.95	9.0E-80	AA725848.1	EST_HUMAN	ar79a04.x1 Barstead colon LPLRBT Homo sapiens cDNA clone IMAGE:2151438 3'
3215	16389	28400	6.95	9.0E-80	AA725848.1	EST_HUMAN	ar79a04.x1 Barstead colon LPLRBT Homo sapiens cDNA clone IMAGE:2151438 3'
10217	23253	36842	1.3	9.0E-80	BE798603.1	EST_HUMAN	ar79a04.x1 Barstead colon LPLRBT Homo sapiens cDNA clone IMAGE:2151438 3'
11554	24609	38288	7.68	9.0E-80	11433924	NT	ar79a04.x1 Barstead colon LPLRBT Homo sapiens cDNA clone IMAGE:2151438 3'
11554	24609	38289	7.63	9.0E-80	11433924	NT	ar79a04.x1 Barstead colon LPLRBT Homo sapiens cDNA clone IMAGE:2151438 3'
3691	16853		1.01	8.0E-80	U94387.1	NT	ar79a04.x1 Barstead colon LPLRBT Homo sapiens cDNA clone IMAGE:2151438 3'
7780	20836	34328	2.82	8.0E-80	11422847	NT	ar79a04.x1 Barstead colon LPLRBT Homo sapiens cDNA clone IMAGE:2151438 3'
7780	20836	34329	2.82	8.0E-80	11422847	NT	ar79a04.x1 Barstead colon LPLRBT Homo sapiens cDNA clone IMAGE:2151438 3'
8602	22857	36228	2.2	8.0E-80	6005921	NT	ar79a04.x1 Barstead colon LPLRBT Homo sapiens cDNA clone IMAGE:2151438 3'
9602	22857	36229	2.2	8.0E-80	6005921	NT	ar79a04.x1 Barstead colon LPLRBT Homo sapiens cDNA clone IMAGE:2151438 3'
7114	18540	31497	0.61	7.0E-80	AF127882.1	NT	ar79a04.x1 Barstead colon LPLRBT Homo sapiens cDNA clone IMAGE:2151438 3'
923	14098	27162	0.74	8.0E-80	AI422197.1	EST_HUMAN	ar79a04.x1 Barstead colon LPLRBT Homo sapiens cDNA clone IMAGE:2151438 3'
1675	14827	27910	2.41	6.0E-80	U64898.1	NT	ar79a04.x1 Barstead colon LPLRBT Homo sapiens cDNA clone IMAGE:2151438 3'
2372	15503	28628	1.14	6.0E-80	6631094	NT	ar79a04.x1 Barstead colon LPLRBT Homo sapiens cDNA clone IMAGE:2151438 3'
2372	15503	28629	1.14	6.0E-80	6631094	NT	ar79a04.x1 Barstead colon LPLRBT Homo sapiens cDNA clone IMAGE:2151438 3'
5922	19109	32422	1.46	6.0E-80	11421462	NT	ar79a04.x1 Barstead colon LPLRBT Homo sapiens cDNA clone IMAGE:2151438 3'
6200	19375	32726	3.35	6.0E-80	AI404468.1	NT	ar79a04.x1 Barstead colon LPLRBT Homo sapiens cDNA clone IMAGE:2151438 3'

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6938	19528	32886	4.07	6.0E-80	11436733	NT	Homo sapiens tubby like protein 3 (TULP3), mRNA
6402	19571		1.08	6.0E-80	7682393	NT	Homo sapiens KIAA0941 protein (KIAA0941), mRNA
6452	19619	32882	0.82	6.0E-80	M18533.1	NT	Homo sapiens dystrophin (DMD) mRNA, complete cds
9024	22103	35643	3.4	6.0E-80	11528464	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
9024	22103	35644	3.4	6.0E-80	11528464	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
8221	22299	35842	1.57	6.0E-80	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21C101
9559	22824	36198	0.85	6.0E-80	AF161465.1	NT	Homo sapiens HSPC148 mRNA, complete cds
10055	23103	36708	1.83	6.0E-80	U20211.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exon 21
11183	24252	37887	2	6.0E-80	11427368	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
11498	24555	38231	20.86	6.0E-80	AF226730.1	NT	Homo sapiens Gyt19 mRNA, complete cds
12053	25034	38740	1.48	6.0E-80	AF102265.1	NT	Homo sapiens N-acetylglucosamine-phosphate mutase mRNA, complete cds
12176	14088	27162	1.75	6.0E-80	AI422197.1	EST_HUMAN	tf53d02.x1 NCL CGAP Brn23 Homo sapiens cDNA clone IMAGE:2103459 3' similar to SW:NUEM_HUMAN Q18795 NADH-HUBIQUINONE OXIDOREDUCTASE 39 KD SUBUNIT PRECURSOR ;
12309	26972		2	6.0E-80	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12512	25351		3.32	6.0E-80	AB029900.1	NT	Homo sapiens GST gene for ceretroside sulfoxidation, exon 1, 2, 3, 4, 5
13081	26115		2.69	6.0E-80	AI133127.1	NT	Homo sapiens mRNA for sodium-glucose cotransporter (SGLT2 gene)
801	13790	26811	1.7	5.0E-80	4506228	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 3 (PSMD3) mRNA
858	14035	27097	1.89	5.0E-80	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MINK1) mRNA, complete cds
858	14036	27098	1.89	5.0E-80	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MINK1) mRNA, complete cds
1216	14377		1.49	5.0E-80	X91647.1	NT	H. sapiens nocl gene (exon 12)
1485	14638		2.89	5.0E-80	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
2601	15628	28748	3.51	5.0E-80	AB037855.1	NT	Homo sapiens mRNA for KIAA1434 protein, partial cds
2655	15669	28078	1.78	5.0E-80	4504292	NT	Homo sapiens H3 histone family, member J (H3FJ) mRNA
4150	17302	30295	0.9	5.0E-80	AB019038.1	NT	Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltransferase, complete cds
4150	17302	30296	0.9	5.0E-80	AB019038.1	NT	Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltransferase, complete cds
5088	18196	31170	1.23	5.0E-80	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C068
8552	21633	35170	1.28	5.0E-80	9910283	NT	Mus musculus keratin complex 2, gene 6g (Krt2-5g), mRNA
9458	22574	36140	5.03	4.0E-80	F25615.1	EST_HUMAN	HS21C101 Homo sapiens cDNA clone e4000045F03
223	13445		6.03	3.0E-80	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
5028	18157		2.3	3.0E-80	BE817465.1	EST_HUMAN	Q1A-BN0263-040600-241-g10 BN0263 Homo sapiens cDNA
5941	19127	32440	1.78	3.0E-80	AI091875.1	EST_HUMAN	cc29e12.x1 Soares NSF FB_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1567054 3' similar to TR:035790 O35790 PIG-L ;

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1841	14987	28087	4.85	2.0E-80	R35321.1	EST_HUMAN	y685a08.1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:38060 5'
1908	15051	28163	1.57	2.0E-80	A1444821.1	EST_HUMAN	RET4B7 subtracted retina cDNA library/Homo sapiens cDNA clone RET4B7
2116	15253	28372	7.03	2.0E-80	ALD49116.2	EST_HUMAN	DKFZp434D1323_r1 494 (synonym: h1es3) Homo sapiens cDNA clone DKFZp434D1323 5'
6944	20257	33696	0.95	2.0E-80	AA882852.1	EST_HUMAN	nm80401.st NCI_CGAP_Oa9 Homo sapiens cDNA clone IMAGE:1090177 3'
7053	20106	33522	1.89	2.0E-80	11421830	NT	Homo sapiens Golgi transport complex protein (90 kDa) (GTC80), mRNA
							y68f12.1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:22861 5' similar to SPK1OR_XENLA P08802 KERATIN, TYPE I CYTOSKELETAL ENDO B ;
7401	20479	33947	0.89	2.0E-80	T75215.1	EST_HUMAN	EST376843 IMAGE resequences, MAGH Homo sapiens cDNA
6360	22435	35994	1.21	2.0E-80	AW064270.1	EST_HUMAN	Homo sapiens GGT gene, exon 6
6970	23009	36603	0.99	2.0E-80	AJ007979.1	NT	z70f12.1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:727727 5' similar to TR:G181315
11109	24181	37815	8.84	2.0E-80	AA393302.1	EST_HUMAN	G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN. ;
350	13561		1.62	1.0E-80	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
822	14001	27055	1.3	1.0E-80	AF231620.1	NT	Homo sapiens chromosome 21 unknown mRNA
							nm011212.x5 NCI_CGAP_Oa9 Homo sapiens cDNA clone IMAGE:1076495 3' similar to contains ORF.H1 ORF repetitive element ;
2008	19149		2.42	1.0E-80	A1732656.1	EST_HUMAN	Homo sapiens cullin 4A (CUL4A) mRNA, complete cds
4583	17720	30703	0.95	1.0E-80	AF077188.1	NT	Homo sapiens PRKY exon 7
5343	18469		3.32	1.0E-80	Y13932.1	NT	Homo sapiens PRKY exon 7
5442	18642		6.25	1.0E-80	BE386615.1	EST_HUMAN	601274305F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3616435 5'
6093	19274	32603	6.12	1.0E-80	L10347.1	NT	Human pro-alpha1 type II collagen (COL2A1) gene exons 1-54, complete cds
							Homo sapiens malate dehydrogenase 2, NAD (mitochondrial) (MDH2), nuclear gene encoding mitochondrial protein, mRNA
6627	19787	33175	1.17	1.0E-80	5174540	NT	Homo sapiens mRNA for lipophilin B
7356	20435	33897	1.18	1.0E-80	AJ224172.1	NT	Homo sapiens cDNA clone IMAGE:2472298 3'
7747	20807	34296	8.03	1.0E-80	A1948731.1	EST_HUMAN	wq25c05.x1 NCI_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2472296 3'
7747	20807	34297	8.03	1.0E-80	A1948731.1	EST_HUMAN	wq25c05.x1 NCI_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2472296 3'
8428	21507	35039	0.97	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
8897	21978	35514	0.76	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
8897	21978	35515	0.76	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
9485	22542	36104	1.17	1.0E-80	AF245219.1	NT	Homo sapiens probable mannose binding C-type lectin DG-SIGNR mRNA, complete cds
9485	22542	36105	1.17	1.0E-80	AF245219.1	NT	Homo sapiens probable mannose binding C-type lectin DG-SIGNR mRNA, complete cds
10840	23674	37284	0.7	1.0E-80	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
10887	23971	37601	4.9	1.0E-80	11641276	NT	Homo sapiens similar to rat myomogalin (LOC64182), mRNA
10887	23971	37602	4.9	1.0E-80	11641276	NT	Homo sapiens similar to rat myomogalin (LOC64182), mRNA
12583	25399	32042	1.32	1.0E-80	11417901	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
12862	25573		1.28	1.0E-80	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10823	24006	37640	1.93	8.0E-81	AI281782.1	EST_HUMAN	q190g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854298 3'
10923	24006	37641	1.93	8.0E-81	AI281782.1	EST_HUMAN	q190g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854298 3'
11422	24483	38147	5.09	8.0E-81	BE394525.1	EST_HUMAN	601310531F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632070 5'
							zs21410.1 Soares_fetal_hair_NH-H19W Homo sapiens cDNA clone IMAGE:359635 5' similar to SW:KRHA_RABIT_Q02957 KERATIN, GLYCINE/TYROSINE-RICH OF HAIR. [1] contains element MER22 repetitive element;
2280	15412	28543	0.94	7.0E-81	AA011080.1	EST_HUMAN	zsa91c08.x5 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:289918 3'
7402	20480	33948	3.89	7.0E-81	AI822115.1	EST_HUMAN	601111970F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
4506	17845	30832	3.73	6.0E-81	BE256829.1	EST_HUMAN	601111970F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
4506	17845	30833	3.73	6.0E-81	BE256829.1	EST_HUMAN	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
5397	18599	31569	2.28	6.0E-81	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
5397	18599	31570	2.28	6.0E-81	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
9437	22611	36076	1.24	6.0E-81	AA360017.1	EST_HUMAN	EST189128 Fetal lung II Homo sapiens cDNA 5' end
12747	25495	32030	3.38	6.0E-81	BF678022.1	EST_HUMAN	602153686F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294601 5'
12747	25495	32031	3.38	6.0E-81	BF678022.1	EST_HUMAN	602153686F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294601 5'
2281	15423	28557	2.98	5.0E-81	BE268042.1	EST_HUMAN	601125505F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3345480 5'
8807	21688	35228	3.06	5.0E-81	AB007823.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8807	21688	35227	3.06	5.0E-81	AB007823.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9848	22888	38487	1.25	5.0E-81	M60316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
9848	22888	38488	1.25	5.0E-81	M60316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
11883	24871	38598	1.76	5.0E-81	9506634	NT	Homo sapiens hypothetical protein (FLJ11045), mRNA
							tr38et12.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2122702 3' similar to TR:Q85560 Q85560
720	13902	26943	0.64	4.0E-81	AI521435.1	EST_HUMAN	h198d02.x1 NCI_CGAP_Cot14 Homo sapiens cDNA clone IMAGE:3035907 3' similar to SW:COGP_BOVIN
1867	15013	28121	1.54	4.0E-81	AW770812.1	EST_HUMAN	P53820 COATOMER GAMMA SUBUNIT.
3239	16413	28428	3.91	4.0E-81	AB03708.1	NT	Homo sapiens mRNA for KIAA1345 protein, partial cds
3718	16879	28884	0.89	4.0E-81	AW004608.1	EST_HUMAN	ws80j03.x1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2505289 3' similar to TR:O43815 O43815
4276	17421	30408	2.94	4.0E-81	AF263306.1	NT	STRIATIN.;
4276	17421	30409	2.94	4.0E-81	AF263306.1	NT	Homo sapiens rab3 interacting protein variant 2 mRNA, partial cds
							Homo sapiens rab3 interacting protein variant 2 mRNA, partial cds
7427	20504	33874	0.91	4.0E-81	4757893	NT	Homo sapiens calcium channel, voltage-dependent, L type, alpha 2/delta subunit (CACNA2) mRNA
7659	20831	34106	0.59	4.0E-81	11420544	NT	Homo sapiens ets variant gene 1 (ETV1), mRNA
8482	21663	35098	2.36	4.0E-81	X016988.1	NT	Human mRNA for amyloid A4(751) protein
8742	21821	35355	2.2	4.0E-81	U20197.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3

Table 4

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8742	21821	33358	2.2	4.0E-81	U20197.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
9427	22601	36067	3.35	4.0E-81	AB018001.1	NT	Homo sapiens mRNA for Death-associated protein kinase 2, complete cds
10306	23341	36846	1.4	4.0E-81	11425281	NT	Homo sapiens ligase I, DNA, ATP-dependent (LIG1), mRNA
10374	23409	37018	0.65	4.0E-81	11439085	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
10374	23409	37019	0.65	4.0E-81	11439085	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
11461	24520	38189	4.74	4.0E-81	4759085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B), mRNA
11461	24520	38190	4.74	4.0E-81	4759085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B), mRNA
12200	26039	31682	8.38	4.0E-81	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12200	26039	31683	8.38	4.0E-81	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12786	25532	32009	1.03	4.0E-81	11417871	NT	Homo sapiens beta-ureidopropionase (LOC51733), mRNA
12786	25532	32010	1.63	4.0E-81	11417871	NT	Homo sapiens beta-ureidopropionase (LOC51733), mRNA
12958	25623	31978	4.21	4.0E-81	11417974	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
1296	14452	27516	9.06	3.0E-81	Y18000.1	NT	Homo sapiens NF2 gene
1296	14452	27517	9.06	3.0E-81	Y18000.1	NT	Homo sapiens NF2 gene
2444	15572	28701	1.72	3.0E-81	AF077188.1	NT	Homo sapiens cullin 4A (CUL4A), mRNA, complete cds
3055	16231	28290	6.11	3.0E-81	4506280	NT	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN) mRNA
3055	16231	28261	6.11	3.0E-81	4506280	NT	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN) mRNA
2894	16073	29090	2.29	2.0E-81	BE784636.1	EST_HUMAN	601474072F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3877121 5'
2894	16073	29091	2.20	2.0E-81	BE784636.1	EST_HUMAN	601474072F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3877121 5'
3873	17032	30031	0.8	2.0E-81	AW611542.1	EST_HUMAN	Hg85c01.x1 NCL_OGAP_Kid11 Homo sapiens cDNA clone IMAGE:2862384 3'
8144	21228	34748	0.69	2.0E-81	8923839	NT	Homo sapiens hypothetical protein (LOC55586), mRNA
13129	17032	30031	5.68	2.0E-81	AW611542.1	EST_HUMAN	Hg85c01.x1 NCL_OGAP_Kid11 Homo sapiens cDNA clone IMAGE:2862384 3'
4638	17774	30754	2.86	1.0E-81	AA040370.1	EST_HUMAN	2k48109.r1 Soares_pregnant_uterus_Nbt-HPU Homo sapiens cDNA clone IMAGE:485825 5' similar to
4768	17803	30886	9.54	1.0E-81	BE047896.1	EST_HUMAN	PIR-S52437 S52437 CDP-diacylglycerol synthase - fruit fly;
5241	18363	31331	0.6	1.0E-81	9968844	NT	tz45c04.y1 NCL_OGAP_Bm52 Homo sapiens cDNA clone IMAGE:2291528 5'
5351	18479	38821	6.18	1.0E-81	U87928.1	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
5469	18669	31648	3.8	1.0E-81	11432966	NT	Human acortitate hydratase (ACO2) gene, exon 3
5469	18669	31649	3.8	1.0E-81	11432966	NT	Homo sapiens polymerase (DNA directed), gamma (POL.G), mRNA
5619	18813	31881	0.76	1.0E-81	AA255569.1	EST_HUMAN	Homo sapiens polymerase (DNA directed), gamma (POL.G), mRNA
5771	18863	32264	3.18	1.0E-81	U52351.1	NT	z65d06.r1 Soares_NbtHMPu_S1 Homo sapiens cDNA clone IMAGE:582476 5' similar to SW-PR12_HUMAN P49843 DNA PRIMASE 58 KD SUBUNIT ; Homo sapiens arm-repeat protein NPRAP/heparin-binding growth factor 1 (PTN) mRNA, partial cds

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5771	18903	32285	3.18	1.0E-81	U52351.1	NT	Homo sapiens arm-repeat protein NPRAP/neurotrophin (CTNND2) mRNA, partial cds
6274	19448	32787	1.81	1.0E-81	BF674641.1	EST_HUMAN	602137864F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4274535 5'
6877	20029	33439	1.09	1.0E-81	AJ133263.1	NT	Homo sapiens caveolin-1/2 locus, Contig1, D7S522, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
7949	20959	34509	7.94	1.0E-81	11432968	NT	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
7972	21022	34535	0.81	1.0E-81	AJ250408.1	NT	Homo sapiens GLI3 gene for GLI3 protein
9978	23017	36810	0.89	1.0E-81	BE968278.1	EST_HUMAN	601645051F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3830228 5'
9978	23017	36811	0.89	1.0E-81	BE968278.1	EST_HUMAN	601645051F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3830228 5'
10174	23211	36804	5.13	1.0E-81	BE564367.1	EST_HUMAN	601343180F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685483 5'
10308	23343	36948	0.87	1.0E-81	AA630784.1	EST_HUMAN	6014406.s1 Strategene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:856427 3' similar to SW:YB36_YEAST P38128 HYPOTHETICAL 60.5 KD PROTEIN IN RPS101-RPS13 INTERGENIC REGION:
10310	23345	36950	3.72	1.0E-81	BE744645.1	EST_HUMAN	601577339F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3838280 5'
10310	23345	36951	3.72	1.0E-81	BE744645.1	EST_HUMAN	601577339F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3838280 5'
10726	23759	37367	1.41	1.0E-81	AW897550.1	EST_HUMAN	CM3-NN0059-140400-147-912 NN0059 Homo sapiens cDNA
10894	23896	37619	0.49	1.0E-81	AW250322.1	EST_HUMAN	2822127 Sprime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822127 5'
11182	24261	37886	1.87	1.0E-81	8923688	NT	Homo sapiens golgin-like protein (GLP), mRNA
11347	24409	38061	1.58	1.0E-81	AW844986.1	EST_HUMAN	MF0-CT0006-260599-019 CT0006 Homo sapiens cDNA
11347	24409	38062	1.58	1.0E-81	AW844986.1	EST_HUMAN	MF0-CT0006-260599-019 CT0006 Homo sapiens cDNA
11352	24414	38068	2.93	1.0E-81	AW798167.1	EST_HUMAN	RC3-UM0046-260200-011-906 UM0046 Homo sapiens cDNA
11352	24414	38069	2.93	1.0E-81	AW798167.1	EST_HUMAN	RC3-UM0046-260200-011-906 UM0046 Homo sapiens cDNA
11550	18490	31528	2.46	1.0E-81	AW960658.1	EST_HUMAN	EST372729 MAGE resequences, MAGF Homo sapiens cDNA
11812	24802	38501	1.89	1.0E-81	BF204263.1	EST_HUMAN	601867714F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4110459 5'
12417	25295	32085	3.6	1.0E-81	11418138	NT	Homo sapiens photobin (similar to apolipoprotein B mRNA editing protein) (DJ742C19.2), mRNA
13	13251	26251	1.59	8.0E-82	AF161406.1	NT	Homo sapiens HSPC288 mRNA, partial cds
109	13251	26251	1.35	8.0E-82	AF161406.1	NT	Homo sapiens HSPC288 mRNA, partial cds
274	13492	26523	1.58	8.0E-82	U08988.1	NT	Human CRFB4 gene, partial cds
837	14015	27070	1.97	8.0E-82	U08988.1	NT	Human CRFB4 gene, partial cds
910	14085	27150	1.94	8.0E-82	U08988.1	NT	Human CRFB4 gene, partial cds
1620	14673	27755	2.24	8.0E-82	AB037748.1	NT	Homo sapiens mRNA for KIAA1327 protein, partial cds
1890	14842	27927	1.39	8.0E-82	6716001	NT	Homo sapiens glutathione peroxidase 5 (epididymal androgen-related protein) (GPX5), transcript variant 2, mRNA
4168	17348	30339	0.74	8.0E-82	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4358	17501	30483	0.83	8.0E-82	8823432	NT	Homo sapiens hypothetical protein FLJ20461 (FLJ20461), mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1481	14834		1.18	7.0E-82	BF035327.1	EST_HUMAN	60145631F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
2825	15030	26040	1.82	7.0E-82	AU144050.1	EST_HUMAN	AU144050 HEMBA1 Homo sapiens cDNA clone HEMBA1000752 3'
1705	14857	27644	22.64	4.0E-82	AF081484.1	NT	Homo sapiens alpha-tubulin isoform 1 mRNA, complete cds
5613	18807	31874	0.87	4.0E-82	BF351661.1	EST_HUMAN	QV2-HT0540-120900-362-08 HT0540 Homo sapiens cDNA
5613	18807	31875	0.87	4.0E-82	BF351661.1	EST_HUMAN	QV2-HT0540-120900-362-08 HT0540 Homo sapiens cDNA
5876	19066	32374	1.1	4.0E-82	M25833.1	NT	Human von Willebrand factor gene, exon 9
12016	26000	38702	4.71	4.0E-82	A937900.1	EST_HUMAN	wp75e09.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2467624 3' similar to TR:O75276
12683	25455		3.78	4.0E-82	AF029701.2	NT	O75276 PKD1;
							Homo sapiens presenilin-1 gene, exons 1 and 2
288	13508	26540	15.3	3.0E-82	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease neuro-II, Alzheimer disease) (APP), mRNA
721	13903	26944	2.5	3.0E-82	BE005705.1	EST_HUMAN	RC2-BN0120-010400-013-02 BN0120 Homo sapiens cDNA
810	13986	27043	8.44	3.0E-82	6174702	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
883	14069	27134	5.31	3.0E-82	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease neuro-II, Alzheimer disease) (APP), mRNA
1088	14252		15.73	3.0E-82	AA725948.1	EST_HUMAN	ac23a05.x1 Soares, testis, NHT Homo sapiens cDNA clone 1343648 3'
1386	14541	27617	1.22	3.0E-82	AW875073.1	EST_HUMAN	RC8-PT0001-190100-021-802 PT0001 Homo sapiens cDNA
1494	14847	27729	5.59	3.0E-82	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
1950	15088	28194	2.14	3.0E-82	BE813232.1	EST_HUMAN	RC1-BN0005-280700-018-g04 BN0005 Homo sapiens cDNA
2062	15202	28318	1.11	3.0E-82	4501922	NT	Homo sapiens adenylate cyclase activating polypeptide 1 (pituitary) receptor type I (ADCYAP1R1) mRNA
3345	16516		2.42	3.0E-82	5453311	NT	Homo sapiens neurotrophic tyrosine kinase, receptor, type 2 (NTRK2) mRNA
8346	21427	34052	2.66	3.0E-82	11425206	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
8753	21832	35371	0.89	3.0E-82	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
8763	21832	35372	0.89	3.0E-82	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
10029	23087	38665	4.01	3.0E-82	AB029000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
10029	23087	38666	4.01	3.0E-82	AB029000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
610	13788	28818	2.49	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA0989 protein, partial cds
610	13799	28819	2.49	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA0989 protein, partial cds
1720	14870	27662	2.23	2.0E-82	AL046300.1	EST_HUMAN	DKFZp434M117_1 434 (synonym: hnc3) Homo sapiens cDNA clone DKFZp434M117 5'
3949	17107	30104	0.93	2.0E-82	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4131	17294	30279	0.89	2.0E-82	U78833.1	NT	Human integral membrane serine protease Seprease mRNA, complete cds
4348	17491	30473	0.9	2.0E-82	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4680	17815	30803	1.52	2.0E-82	AB029019.1	NT	Homo sapiens mRNA for KIAA1096 protein, partial cds

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4880	17815	30804	1.62	2.0E-82	AB028019.1	NT	Homo sapiens mRNA for KIAA1086 protein, partial cds
4892	18121	31100	2.86	2.0E-82	AF045555.1	NT	Homo sapiens wbscr1 (WBSR1) and wbscr2 (WBSR2) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds
5191	18313	31280	1.56	2.0E-82	4507580	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
5191	18313	31281	1.58	2.0E-82	4507580	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
5537	18782	31827	2.89	2.0E-82	AB018270.1	NT	Homo sapiens mRNA for KIAA0727 protein, partial cds
6304	19477	32832	4.63	2.0E-82	AF234882.1	NT	Homo sapiens FAM44A1 splice variant a (FAM44A1) mRNA, complete cds
7858	20222		1.19	2.0E-82	AF478428.1	EST_HUMAN	tm21g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2157272 3'
7888	21038	34550	0.8	2.0E-82	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8500	21581	35117	1.81	2.0E-82	11321570	NT	Homo sapiens slit (Drosophila) homolog 3 (SLIT3), mRNA
8869	21848	35482	0.58	2.0E-82	7657340	NT	Homo sapiens microchidia (mouse) homolog (MORC), mRNA
8869	21848	35483	0.58	2.0E-82	7657340	NT	Homo sapiens microchidia (mouse) homolog (MORC), mRNA
10315	23350	36956	1.16	2.0E-82	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
10315	23350	36957	1.16	2.0E-82	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
11547	24603	38279	1.74	2.0E-82	11417191	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
11547	24603	38280	1.74	2.0E-82	11417191	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
11588	24841	38322	2.6	2.0E-82	U80736.1	NT	Homo sapiens CAGFB mRNA, partial cds
11588	24841	38323	2.6	2.0E-82	U80736.1	NT	Homo sapiens CAGFB mRNA, partial cds
12230	25177		2.81	2.0E-82	N94950.1	EST_HUMAN	Zb37d10.s1 Soares_papillary tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'
12818	25345		3.72	2.0E-82	AA011278.1	EST_HUMAN	Zb37d10.s1 Soares_papillary tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'
605	13794	26813	1.69	1.0E-82	11545921	NT	Zb37d10.s1 Soares_papillary tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'
1235	14394		3.19	1.0E-82	BE885106.1	EST_HUMAN	Zb37d10.s1 Soares_papillary tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'
1314	14470	27536	1.38	1.0E-82	BE064386.1	EST_HUMAN	Zb37d10.s1 Soares_papillary tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'
1315	14471	27537	0.8	1.0E-82	AB011110.2	NT	Zb37d10.s1 Soares_papillary tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'
9143	22222	35765	0.9	1.0E-82	AB037838.1	NT	Zb37d10.s1 Soares_papillary tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'
9853	22853	36474	0.51	1.0E-82	AB014962.1	NT	Zb37d10.s1 Soares_papillary tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'
10451	23486		1.4	1.0E-82	BF015938.1	EST_HUMAN	Zb37d10.s1 Soares_papillary tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'
10984	24083	37698	2.49	1.0E-82	AL163208.2	NT	Zb37d10.s1 Soares_papillary tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'
11258	24327	37966	1.49	1.0E-82	AL163246.2	NT	Zb37d10.s1 Soares_papillary tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'
5307	18424	31394	1.05	9.0E-83	AF224889.1	NT	Zb37d10.s1 Soares_papillary tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'
8912	21891	35530	4.99	9.0E-83	BF072220.1	EST_HUMAN	Zb37d10.s1 Soares_papillary tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'
10481	23516	37128	0.72	9.0E-83	BE263347.1	EST_HUMAN	Zb37d10.s1 Soares_papillary tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'
1446	14589	27876	2.97	8.0E-83	BE363973.1	EST_HUMAN	Zb37d10.s1 Soares_papillary tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1715	15992	27956	10.59	8.0E-83	N66951.1	EST_HUMAN	2a48f12.s1 Scores fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:295823 3'
1388	14543	27618	1.2	7.0E-83	AW385529.1	EST_HUMAN	QV4-LT0016-271269-088-R11 LT0016 Homo sapiens cDNA
2928	16105		1.84	7.0E-83	AA594655.1	EST_HUMAN	no12h01.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100497 3' similar to contains Alu repetitive element
4936	18068		6.85	7.0E-83	BF221813.1	EST_HUMAN	7p37a07.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:3847883 3' similar to TR:Q9Y316 Q9Y316 D1207H1.1
6176	19362	32669	0.95	7.0E-83	11428857	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
416	13611	26660	1.39	6.0E-83	M33320.1	NT	Human platelet Glycoprotein IIb (GPIIb) gene, exons 2-29
1828	14676	28071	1.79	6.0E-83	AW573088.1	EST_HUMAN	h131h03.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2833526 3' similar to
3082	16258	29277	0.88	6.0E-83	AW816405.1	EST_HUMAN	SW:YBEB_HAEIN P44471 HYPOTHETICAL PROTEIN H10034. ;
3116	16292		0.7	6.0E-83	AF231919.1	NT	QV4-ST0234-181199-037-405 ST0234 Homo sapiens cDNA
3653	16318	29828	0.92	6.0E-83	11430241	NT	Homo sapiens chromosome 21 unknown mRNA
5408	18610	31582	1.73	6.0E-83	4507868	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
6147	19324	32669	1.31	6.0E-83	AJ010770.1	NT	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
7671	20737	34215	2	6.0E-83	11422024	NT	Homo sapiens hypoxanthine gene, exons 1-50
9878	22918	36503	3.51	6.0E-83	4505314	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
9971	23010	36604	0.71	6.0E-83	11430647	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
8971	23010	36605	0.71	6.0E-83	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Pp18 (PRP18), mRNA
11821	24810		2.31	6.0E-83	AA486105.1	EST_HUMAN	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Pp18 (PRP18), mRNA
12179	25139		4.14	6.0E-83	AF240786.1	NT	Homo sapiens lung (H837210) Homo sapiens cDNA clone IMAGE:840810 3' similar to contains
969	14142		1.24	5.0E-83	U17883.1	NT	ab14e10.s1 Stragene lung (H837210) Homo sapiens cDNA clone IMAGE:840810 3' similar to contains
2108	15989		3	5.0E-83	AF006305.1	NT	THR12 THR repetitive element
3728	16889	29893	0.91	5.0E-83	AL133207.2	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
4015	17172	30180	0.73	5.0E-83	4685190	NT	Human succinate dehydrogenase iron-protein subunit (sdhB) gene, exon 5
4554	17692	30672	0.61	6.0E-83	AL163210.2	NT	Homo sapiens 26S proteasome regulatory subunit (SUG2) mRNA, complete cds
5160	18312	31278	13.87	5.0E-83	4557013	NT	Novel human gene mapping to chromosome X
5190	18312	31279	13.87	5.0E-83	4557013	NT	Homo sapiens deoxyribonuclease I (DNASEI), mRNA
657	13843	26870	1.87	4.0E-83	AF224668.1	NT	Homo sapiens chromosome 21 segment HS21C010
1022	14193		4.09	3.0E-83	AA368311.1	EST_HUMAN	Homo sapiens catalase (CAT) mRNA
							Homo sapiens catalase (CAT) mRNA
							Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
							EST78542 Placenta Homo sapiens cDNA similar to similar to endogenous retrovirus ERV9

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2837	15951		1.6	3.0E-83	AA632654.1	EST_HUMAN	np87c07.s1 NCL CGAP_Tmy1 Homo sapiens cDNA clone IMAGE:1133282 similar to contains THR12 THR
6708	19868		0.82	3.0E-83	AI217223.1	EST_HUMAN	repetitive element ; q73a00.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755682 3'
1843	14989	28089	1.37	2.0E-83	AA983492.1	EST_HUMAN	cd84g05.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1621582 3' similar to TR:Q82814 Q82814 MYELOBLAST KIAA0218 ; cd84g05.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1621582 3' similar to TR:Q82814
1843	14989	28090	1.37	2.0E-83	AA983492.1	EST_HUMAN	Q82814 MYELOBLAST KIAA0218 ;
1978	15121	28222	9.11	2.0E-83	NG6951.1	EST_HUMAN	Z848112.s1 Soares fetal liver spleen TNFSL Homo sapiens cDNA clone IMAGE:285823 3'
2251	16394	28512	1.57	2.0E-83	AB033098.1	NT	Homo sapiens mRNA for KIAA1272 protein, partial cds
2913	16081	29103	1.33	2.0E-83	BE828894.1	EST_HUMAN	RC8-ET0048-280600-013-H12 ET0048 Homo sapiens cDNA
3342	16515		2.18	2.0E-83	11430834	NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
3874	17033		0.94	2.0E-83	AL162022.2	NT	Homo sapiens chromosome 21 segment HS21C002
4466	17596	30576	4.95	2.0E-83	AF202870.1	NT	Homo sapiens hematopoietic progenitor cell antigen CD34 precursor (CD34) mRNA, partial cds
4775	17910	30893	3.19	2.0E-83	77063368	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
4775	17910	30894	3.19	2.0E-83	77063368	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
5395	18587	31569	0.91	2.0E-83	U06678.1	NT	Human carcinoembryonic antigen gene family member 18 (CGM18) gene, exons A1 and B1
5807	19163	32468	0.87	2.0E-83	11428081	NT	Homo sapiens membrane protein CH1 (CH1), mRNA
6086	19288	32597	1.2	2.0E-83	BE885401.1	EST_HUMAN	607507482F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909068 5'
6885	20037	33446	0.72	2.0E-83	AF126533.1	NT	Homo sapiens F-box protein FBX1b (FBX1B) mRNA, partial cds
7593	20684	34140	5.15	2.0E-83	AF129533.1	NT	Homo sapiens F-box protein FBX1b (FBX1B) mRNA, partial cds
7987	21036	34548	0.68	2.0E-83	BF105097.1	EST_HUMAN	601822050F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4042318 5'
8028	21109	34826	0.83	2.0E-83	AB007025.1	NT	Homo sapiens mRNA for brain ryanodine receptor, complete cds
8028	21109	34827	0.83	2.0E-83	AB007025.1	NT	Homo sapiens mRNA for brain ryanodine receptor, complete cds
8175	21257	34778	1.48	2.0E-83	U66707.1	NT	Rattus norvegicus desmin-180 mRNA, complete cds
8508	21590	35124	2.52	2.0E-83	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
8509	21590	35125	2.52	2.0E-83	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
9793	22833	36412	0.54	2.0E-83	5453881	NT	Homo sapiens phosphatase kinase, gamma 1 (muscle) (PHKG1) mRNA
9793	22833	36413	0.54	2.0E-83	5453881	NT	Homo sapiens phosphatase kinase, gamma 1 (muscle) (PHKG1) mRNA
9793	22833	36413	0.54	2.0E-83	5453881	NT	Homo sapiens phosphatase kinase, gamma 1 (muscle) (PHKG1) mRNA
10240	23275	36866	3.2	2.0E-83	M22094.1	NT	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
10240	23275	36867	3.2	2.0E-83	M22094.1	NT	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
10322	23357	36967	1.35	2.0E-83	AU117659.1	EST_HUMAN	AU117659 HEMBA1 Homo sapiens cDNA clone HEMBA1001910 5'
10392	23427	37034	0.78	2.0E-83	AW505600.1	EST_HUMAN	U1HF-BND-and-h-07-0-UL1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3081852 5'
11088	24160	37196	3.24	2.0E-83	11438448	NT	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
11168	24239	37870	1.64	2.0E-83	AL134452.1	EST_HUMAN	DKF7p547J135.1 547 (synonym: hbr1) Homo sapiens cDNA clone DKF7p547J135 5'

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11168	24239	37871	1.64	2.0E-83	AL134452.1	EST_HUMAN	DKFZp547J135_1 547 (synonym: tfrb1) Homo sapiens cDNA clone DKFZp547J135 5'
12859	25570		3.26	2.0E-83	AB011398.1	NT	Homo sapiens gene for AF-6, complete cds
1444	14597	27673	2.28	1.0E-83	4604326	NT	Homo sapiens hydroxyacyl-Coenzyme A dehydrogenase/3-ketacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
1444	14597	27674	2.28	1.0E-83	4504326	NT	Homo sapiens hydroxyacyl-Coenzyme A dehydrogenase/3-ketacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
2076	15216	28335	1.15	1.0E-83	4503652	NT	Homo sapiens fatty-acid-Coenzyme A ligase, very long-chain 1 (FACVL1) mRNA
2722	15940	28951	1.21	1.0E-83	BE683690.1	EST_HUMAN	601507376F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3608754 5'
3251	16425	29443	0.72	1.0E-83	7662349	NT	Homo sapiens cell recognition molecule Caspr2 (KIA00868), mRNA
3972	17129	30132	7.78	1.0E-83	AF053768.1	NT	Rattus norvegicus brain specific corticoid-binding protein CBP90 mRNA, partial cds
4359	17502	30484	2.22	1.0E-83	Z25822.1	NT	H. sapiens gene for mitochondrial dodecenoyl-CoA delta-isomerase, exon 3
5008	18137	31111	2.74	1.0E-83	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
6835	19088	33397	1.59	1.0E-83	AI027614.1	EST_HUMAN	068508.X1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1645431 3' similar to gb:M64241 QM
3897	17056	30056	3.62	7.0E-84	BE901209.1	EST_HUMAN	PROTEIN (HUMAN);
1323	14479	27544	2.96	6.0E-84	BE638864.1	EST_HUMAN	601676023F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3658853 5'
1323	14479	27545	2.96	6.0E-84	BE638864.1	EST_HUMAN	RC2-FN0119-200800-011-g05 FN0119 Homo sapiens cDNA
2471	15598	28723	17.98	6.0E-84	AA776574.1	EST_HUMAN	RC2-FN0119-200800-011-g05 FN0119 Homo sapiens cDNA
5354	18481		2.18	6.0E-84	AL042863.2	EST_HUMAN	ee86-s03.s1 Stratagene echizo brain S11 Homo sapiens cDNA clone IMAGE:971020 3'
5635	18826	31905	1.91	6.0E-84	AA897339.1	EST_HUMAN	DKFZp434H0322_r1 434 (synonym: hnc3) Homo sapiens cDNA clone DKFZp434H0322 5'
5777	18969	32273	0.99	6.0E-84	11428718	NT	aa47g03.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1460500 3' similar to gb:M14338
5777	18969	32274	0.99	6.0E-84	11428718	NT	VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
7842	20711	34190	3.14	6.0E-84	BE810371.1	EST_HUMAN	Homo sapiens acetyl LDL receptor, SREC-scavenger receptor expressed by endothelial cells (SREC), mRNA
7868	20922	34428	1.05	6.0E-84	AF038391.1	NT	Homo sapiens acetyl LDL receptor, SREC-scavenger receptor expressed by endothelial cells (SREC), mRNA
8264	21346	34861	2	6.0E-84	BE770189.1	EST_HUMAN	FN0-LT0019-160500-004-F02 LT0019 Homo sapiens cDNA
732	13914	26956	1.32	5.0E-84	AA382811.1	EST_HUMAN	Homo sapiens pre-mRNA splicing factor (PRP16) mRNA, complete cds
3079	16255		1.91	5.0E-84	AF109718.1	NT	FN4-F10054-160500-004-g10 FT0054 Homo sapiens cDNA
6232	19407	32756	0.62	5.0E-84	AA167676.1	EST_HUMAN	EST166064 Testis I Homo sapiens cDNA 5' end
							Homo sapiens chromosome 3 subtelomeric region
							zq39a07.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632100 5' similar to
							TR:G483915 G483915 RETROTRANSPOSABLE L1 ELEMENT URE2 FROM CHROMOSOME 1Q. ;

Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11638	24827	38516	2.85	5.0E-84	11428740	NT	Homo sapiens regulatory factor X, 3 (influences HLA class II expression) (RFX3), mRNA
11652	24938	38640	1.99	5.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
11652	24938	38641	1.99	5.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
1407	14501	27635	1.34	4.0E-84	AB037735.1	NT	Homo sapiens mRNA for KIAA1314 protein, partial cds
1443	14506	27672	4.47	4.0E-84	AF685321.1	EST_HUMAN	was78c04.x1 Scores_NFL_T_GSC S1 Homo sapiens cDNA clone IMAGE:2302088 3' similar to SW-NRDC_HUMAN O43847 NARDILYSIN PRECURSOR;
5054	18192	31167	0.66	4.0E-84	4505928	NT	Homo sapiens polymerase (DNA-directed), alpha (70kD) (POLA2), mRNA
5085	18193	31168	1.52	4.0E-84	AF069801.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
5377	18579	31448	1.62	4.0E-84	AF022835.1	NT	Homo sapiens multidrug resistance protein (MRP), exon 13
5080	18874	32182	1.8	4.0E-84	11388168	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
5980	18874	32183	1.8	4.0E-84	11388168	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
6388	19367	32928	2.14	4.0E-84	AF056850.1	NT	Homo sapiens histone deacetylase 3 (HDAC3) gene, complete cds
7825	20880	34381	13.68	4.0E-84	11421326	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
9112	22191	35735	1.12	4.0E-84	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
9112	22191	35736	1.12	4.0E-84	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
11158	24229	37859	4.76	4.0E-84	AB032856.1	NT	Homo sapiens mRNA for KIAA1130 protein, partial cds
326	13540	26572	2.16	3.0E-84	AF026200.1	NT	Homo sapiens Bach1 protein homolog mRNA, partial cds
1178	14341	27395	1.53	3.0E-84	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
2015	16155	28260	2.39	3.0E-84	6453855	NT	Homo sapiens pericentriolar material 1 (PCM1) mRNA
2083	16203	28319	2.38	3.0E-84	AL096880.1	NT	Novel human mRNA containing Zinc finger C2H2 type domains
3843	17002	30005	5.53	3.0E-84	AF014459.1	NT	Homo sapiens X-linked juvenile retinoschisis precursor protein (XLR1) mRNA, complete cds
11118	24180		6.78	3.0E-84	AF683801.1	EST_HUMAN	wu20405.x1 Scores_Dicofraefc_ochon_NHCO Homo sapiens cDNA clone IMAGE:2520585 3' similar to gb1.05063 60S RIBOSOMAL PROTEIN L16A (HUMAN);
2172	15307	28435	6.46	2.0E-84	BE685397.1	EST_HUMAN	CM1-BT0795-180600-272-508 BT0795 Homo sapiens cDNA
2172	15307	28436	6.46	2.0E-84	BE685397.1	EST_HUMAN	CM1-BT0795-180600-272-508 BT0795 Homo sapiens cDNA
3009	18185	29209	9.21	2.0E-84	AF036943.1	NT	Homo sapiens myelin transcription factor 1-like (MYT1L) mRNA, complete cds
3027	18203	29226	1.22	2.0E-84	X89211.1	NT	H. sapiens DNA for endogenous retroviral like element
5643	18837	31914	0.93	2.0E-84	BF511575.1	EST_HUMAN	UHL-B14-act-e-02-0-U1.e1 NCJ CGAP Sub8 Homo sapiens cDNA clone IMAGE:3084963 3'
5643	18837	31915	0.93	2.0E-84	BF511575.1	EST_HUMAN	UHL-B14-act-e-02-0-U1.e1 NCJ CGAP Sub8 Homo sapiens cDNA clone IMAGE:3084963 3'
6774	18829	33326	0.92	2.0E-84	AF63370.1	EST_HUMAN	y58e11.s1 Scores fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:208324 3'
8247	21329		1.55	2.0E-84	AL298074.1	EST_HUMAN	gm87c09.x1 NCJ CGAP Lu5 Homo sapiens cDNA clone IMAGE:1895728 3'
8579	21680	35200	0.58	2.0E-84	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
8579	21680	35201	0.58	2.0E-84	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
9548	22611	36179	1.24	2.0E-84	AU120280.1	EST_HUMAN	AU120280 HEMBBT1 Homo sapiens cDNA clone HEMBB1000339 5'

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9893	22972	36594	0.84	2.0E-84	H22841.1	EST_HUMAN	ym49r11.1 Soares infant brain INIB Homo sapiens cDNA clone IMAGE:4090251 3' similar to SP-APOH_RAT
12449	25316	32082	1.81	2.0E-84	BF448000.1	EST_HUMAN	P28644 BETA-2-GALYCOPTROTEIN I; nas30a02.x1 Lupski_sympathetic trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to TR-Q8UGS3 Q8UGS3 DJ756G23.1; nas30a02.x1 Lupski_sympathetic trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to TR-Q8UGS3 Q8UGS3 DJ756G23.1;
12449	25316	32083	1.81	2.0E-84	BF448000.1	EST_HUMAN	Homo sapiens interseitin short isoform (ITSN) mRNA, complete cds
322	13538	26568	1.5	1.0E-84	AF114488.1	NT	Homo sapiens tyrosine 3-monooxygenase/tyrosinase 5-monooxygenase activation protein, zeta polypeptide (YWHAZ) mRNA
663	13765	26781	10.87	1.0E-84	4507952	NT	Homo sapiens complement component 5 (C5), mRNA
738	13920		1.19	1.0E-84	11427631	NT	am85b11.1 Striatogen echizo brain S11 Homo sapiens cDNA clone IMAGE:1628885 3'
1321	14477	27542	2.83	1.0E-84	AA984379.1	EST_HUMAN	601308006F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3628257 5'
2114	15252	28371	3.11	1.0E-84	BE392137.1	EST_HUMAN	Homo sapiens pericentriolar material 1 (PCM1), mRNA
2288	16430	28582	1.63	1.0E-84	11427197	NT	Homo sapiens pericentriolar material 1 (PCM1), mRNA
3845	17005	30007	2.78	1.0E-84	AA720851.1	EST_HUMAN	nm12a06.a1 NCJ CGAP_SS1 Homo sapiens cDNA clone IMAGE:1238108 3'
4538	17678	30659	5.89	1.0E-84	AJ228041.1	NT	nm12a06.a1 NCJ CGAP_SS1 Homo sapiens cDNA clone IMAGE:1238108 3'
4821	17854	30839	3.03	1.0E-84	AL049314.2	EST_HUMAN	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4821	17854	30839	3.03	1.0E-84	AL049314.2	EST_HUMAN	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
5031	17876	30659	3.56	1.0E-84	AJ228041.1	NT	Homo sapiens speckle-type POZ protein (SPOP), mRNA
6043	18226	32549	0.88	1.0E-84	11434422	NT	Homo sapiens speckle-type POZ protein (SPOP), mRNA
6319	19491	32849	2.84	1.0E-84	S73482.1	NT	uterine waller channel-28 kDa erythrocyte integral membrane protein homolog [human, uterus, mRNA, 1340 nt]
7020	20155	33576	1.42	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7020	20155	33577	1.42	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7256	20339	33789	2.53	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7637	20706	34185	10.45	1.0E-84	8393894	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
7737	20798	34287	1.07	1.0E-84	11430846	NT	Homo sapiens NGF-A binding protein 1 (ERG1 binding protein 1) (NAB1), mRNA
7777	20798	34287	2.34	1.0E-84	11430846	NT	Homo sapiens NGF-A binding protein 1 (ERG1 binding protein 1) (NAB1), mRNA
9736	22800	36606	2.79	1.0E-84	5031984	NT	Homo sapiens nuclear transport factor 2 (placental protein 15) (PP15) mRNA
9872	23011	36606	0.6	1.0E-84	AF224511.1	NT	Homo sapiens nuclear transport factor 2 (placental protein 15) (PP15) mRNA
9994	18488	31527	1.9	1.0E-84	4507948	NT	Homo sapiens Ca2+-binding protein CABP3 (CABP3) gene, exon 6 and partial cds
9994	18488	31528	1.6	1.0E-84	4507948	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
12325	25235	32088	2.62	1.0E-84	11417812	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
12438	25311	32088	3.77	1.0E-84	11417812	NT	Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RXL1), mRNA
989	14161		1.94	9.0E-85	AL163209.2	NT	Homo sapiens acinase 2, mitochondrial (ACO2), mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1098	14263	27310	2.89	9.0E-85	U51432.1	NT	Homo sapiens nuclear protein Skip mRNA, complete cds
1098	14263	27320	2.89	9.0E-85	U51432.1	NT	Homo sapiens nuclear protein Skip mRNA, complete cds
1099	14762	27841	1.12	9.0E-85	M53282.1	NT	Human plasminogen gene, exon 7
1099	14762	27842	1.12	9.0E-85	M53282.1	NT	Human plasminogen gene, exon 7
1709	14860	27849	3.59	9.0E-85	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
3870	17029		0.8	9.0E-85	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C089
4966	17509	30490	0.92	9.0E-85	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C089
5001	18130	31105	0.98	9.0E-85	5901979	NT	Homo sapiens heat shock transcription factor 2 binding protein (HSP2BP), mRNA
5032	18160	31137	1.16	9.0E-85	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C088
13046	14860	27849	1.78	9.0E-85	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
1159	14323	27378	4.94	7.0E-85	L05094.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
11943	24829		5.61	7.0E-85	AF113210.1	NT	Homo sapiens MSTP030 mRNA, complete cds
11702	24699	38391	2.56	6.0E-85	11438573	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
11702	24699	38392	2.56	6.0E-85	11438573	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
12060	25041	38750	2	6.0E-85	AA403063.1	EST_HUMAN	262501.1 Scores_testis_NTT Homo sapiens cDNA clone IMAGE:726889 5' similar to TR:G1335769
2410	15540	28668	4.09	5.0E-85	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4952	17690		0.71	5.0E-85	AF211183.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1I-a isoform (CACNA1I) mRNA, complete cds
5567	18764	31804	1.59	5.0E-85	BF036874.1	EST_HUMAN	501458846F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862402 5'
5567	18764	31805	1.59	5.0E-85	BF036874.1	EST_HUMAN	501458846F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862402 5'
11381	24442	38101	2.31	5.0E-85	AF224868.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
13127	17690		1.72	5.0E-85	AF211183.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1I-a isoform (CACNA1I) mRNA, complete cds
6278	19450	32798	1.39	4.0E-85	BF677810.1	EST_HUMAN	502084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'
6278	19450	32799	1.39	4.0E-85	BF677810.1	EST_HUMAN	502084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'
8021	21074	34698	3.43	4.0E-85	BE5882304.1	EST_HUMAN	501505022F2 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3906940 5'
10798	23831		1.8	4.0E-85	BE079263.1	EST_HUMAN	RC1-BT0623-120200-011-c07 BT0623 Homo sapiens cDNA
1327	14484	27551	0.91	3.0E-85	AF098157.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 6
1821	14970	28062	4.8	3.0E-85	T87495.1	EST_HUMAN	yes3g09.1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:121504 5'
5019	18148	31125	1.03	3.0E-85	11024696	NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5019	18148	31126	1.03	3.0E-85	11024695	NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
5080	18208	31180	0.91	3.0E-85	7363442	NT	Homo sapiens olfactory receptor, family 12, subfamily D, member 2 (OR12D2), mRNA
5517	18715	31729	6.35	3.0E-85	11435001	NT	Homo sapiens lactoferrin rich protein (LPRP), mRNA
6210	19385	32734	0.72	3.0E-85	11420204	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
6282	19436	32782	4.92	3.0E-85	7662309	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
6282	19436	32783	4.92	3.0E-85	7662309	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
7091	20186		7.95	3.0E-85	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
7655	20827	34103	0.84	3.0E-85	11416870	NT	Homo sapiens GTPase regulator associated with the focal adhesion kinase pp125(FAK), KIAA0621 protein (KIAA0621), mRNA
8058	21139	34659	1.44	3.0E-85	U44953.1	NT	Homo sapiens DENN mRNA, complete cds
8706	21786	35319	0.48	3.0E-85	11525829	NT	Homo sapiens CGI-81 protein (LOC51108), mRNA
9178	22256	35798	4.39	3.0E-85	11430889	NT	Homo sapiens phospholipase C, epsilon (PLOC), mRNA
9506	22772	36343	0.84	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B' (SNRNPB2), mRNA
9506	22772	36344	0.84	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B' (SNRNPB2), mRNA
10700	23733	37338	0.72	3.0E-85	AF089642.1	NT	Homo sapiens phospholipid scramblase mRNA, complete cds
11798	24788	38484	1.48	3.0E-85	5031660	NT	Homo sapiens EGF-like repeats and disocidin-like domains 3 (EDIL3), mRNA
12988	25848		3.02	3.0E-85	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
985	14157	27218	0.62	2.0E-85	7667268	NT	Homo sapiens KIAA0929 protein Mac2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
1066	14231	27289	2.35	2.0E-85	AF248640.1	NT	Homo sapiens intersectin 2 (SH3D1B) mRNA, complete cds
1438	14589	27682	1.19	2.0E-85	7708205	NT	Homo sapiens CGI-201 protein (LOC51340), mRNA
1451	14604	27682	13.02	2.0E-85	5174775	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
1451	14604	27683	13.02	2.0E-85	5174775	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
2304	15436	28568	2.92	2.0E-85	U10525.1	NT	Human DNA polymerase beta gene, exons 12 and 13
2884	14523		4.22	2.0E-85	7667468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3087	16263	29280	3.57	2.0E-85	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4454	17594	30574	4.68	2.0E-85	4505880	NT	Homo sapiens plasminogen (PLG) mRNA
4687	17822	30810	0.74	2.0E-85	4828977	NT	Homo sapiens realin (RELN) mRNA
5030	18189	31136	1.21	2.0E-85	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
9473	22530	36084	1.78	2.0E-85	A1760820.1	EST_HUMAN	MSR1 repetitive element
9849	22889	36469	0.82	2.0E-85	A1814459.1	EST_HUMAN	wd48d03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2331461 3'
10468	23504	37118	0.94	2.0E-85	A1886384.1	EST_HUMAN	wd84d12.x1 NCL_CGAP_U12 Homo sapiens cDNA clone IMAGE:2443607 3'
2380	15491		3.65	1.0E-85	BE794308.1	EST_HUMAN	601591416F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945818 5'

Table 4

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2497	15594	28719	9.36	1.0E-85	BE618392.1	EST_HUMAN	601462817F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3866021 5'
2497	15594	28720	9.36	1.0E-85	BE618392.1	EST_HUMAN	601462817F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3866021 5'
7883	21032	34545	0.61	1.0E-85	BE062851.1	EST_HUMAN	MFO-BT0284-271199-002-003 BT0284 Homo sapiens cDNA
6994	23025	36615	2.13	1.0E-85	BE257917.1	EST_HUMAN	601109738F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350553 5'
10415	23450	37055	0.78	1.0E-85	AW813625.1	EST_HUMAN	RC1-ST0198-081089-071-d05 ST0198 Homo sapiens cDNA clone IMAGE:453245 3'
11184	24235	37963	2.79	1.0E-85	AA778785.1	EST_HUMAN	Z4503.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453245 3'
11184	24235	37963	2.79	1.0E-85	AA778785.1	EST_HUMAN	Z4503.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:4128440 5'
11245	24314	37953	1.86	1.0E-85	BF311552.1	EST_HUMAN	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128440 5'
11245	24314	37954	1.86	1.0E-85	BF311552.1	EST_HUMAN	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128440 5'
11245	24314	37954	1.86	1.0E-85	BF311552.1	EST_HUMAN	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:1860468 3'
12068	25049	38757	3.29	1.0E-85	AI198420.1	EST_HUMAN	q56a07.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:1860468 3'
12330	25404	32045	4.68	1.0E-85	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12601	25404	32045	2.92	1.0E-85	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1460	14813	32774	0.62	1.0E-86	BE274217.1	EST_HUMAN	601120778F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2867690 5'
6254	19428	26480	2.2	7.0E-86	7652247	NT	Homo sapiens KIAA0680 gene product (KIAA0680), mRNA
233	19454	26480	2.2	7.0E-86	7652247	NT	Homo sapiens KIAA0680 gene product (KIAA0680), mRNA
960	14133	27192	1.03	7.0E-86	AA860801.1	EST_HUMAN	sj88108.s1 Soares_papillary_tumor_NHHPA Homo sapiens cDNA clone IMAGE:1403558 3'
960	14133	27193	1.03	7.0E-86	AA860801.1	EST_HUMAN	sj88108.s1 Soares_papillary_tumor_NHHPA Homo sapiens cDNA clone IMAGE:1403558 3'
6325	19497	32853	0.97	7.0E-86	9988886	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
6325	19497	32854	0.97	7.0E-86	9988886	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
7116	18542	31499	6.45	7.0E-86	11421737	NT	Homo sapiens Tact (human T-cell leukemia virus type I) binding protein 1 (TAX1BP1), mRNA
8943	22022	35562	3.98	7.0E-86	138557.1	NT	Homo sapiens galactose oxidase (GALC) gene, exon 15
8901	22941	36595	1.13	7.0E-86	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
8960	22939	36595	1.68	7.0E-86	11525307	NT	Homo sapiens DiGeorge syndrome critical region gene 6 (DGCR6), mRNA
11204	24273	37909	1.44	7.0E-86	11417012	NT	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC63170), mRNA
11204	24273	37910	1.44	7.0E-86	11417012	NT	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC63170), mRNA
12117	25097	38802	1.99	7.0E-86	11418903	NT	Homo sapiens similar to transcription factor XIII, A1 polypeptide (F13A1), mRNA
1322	14478	27543	1.87	6.0E-86	4505492	NT	Homo sapiens coagulation factor XIII, A1 polypeptide (F13A1), mRNA
217	13438	26471	2.15	4.0E-86	BE547173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458590 5'
6159	18335	32680	11.61	4.0E-86	BE295943.1	EST_HUMAN	601176855F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3331953 5'
11517	13439	26471	2.34	4.0E-86	BE547173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458590 5'
4404	17547	30531	0.94	3.0E-86	BE667703.1	EST_HUMAN	601443282F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847455 5'
5713	18906	32201	6.19	3.0E-86	AW340946.1	EST_HUMAN	x28h12.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2871719 3'
8457	21538	35067	1.21	3.0E-86	AV722329.1	EST_HUMAN	AV722329 HTB Homo sapiens cDNA clone HTBDS004 5'
10425	22460	37065	3.64	3.0E-86	BE886479.1	EST_HUMAN	601508966F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10425	23460	37068	3.54	3.0E-88	BE868478.1	EST_HUMAN	601509696F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'
11720	23506	37529	4.97	3.0E-88	AI689240.1	EST_HUMAN	tut18b02.x1 NCI_CGAP_Pt28 Homo sapiens cDNA clone IMAGE:2251371 3'
11803	24763	38491	1.37	3.0E-88	AV690488.1	EST_HUMAN	AV690489 CGK Homo sapiens cDNA clone GKCBSE02 5'
12300	25971		3.38	3.0E-88	BE410354.1	EST_HUMAN	601802333F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636733 5'
277	13495	28525	1.68	2.0E-88	AA308284.1	EST_HUMAN	EST177232 Jurkat T-cells V1 Homo sapiens cDNA 5' end
427	13622		2.69	2.0E-88	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
1217	14378	27437	3.33	2.0E-88	N58977.1	EST_HUMAN	y419e08.r1 Soares multiple sclerosis 2NblHNSP Homo sapiens cDNA clone IMAGE:283478 5'
2265	15398	28526	8.53	2.0E-86	9635487	NT	Human endogenous retrovirus, complete genome
2342	15473	28607	1.96	2.0E-88	AB033103.1	NT	Homo sapiens mRNA for KIAA1277 protein, partial cds
3502	16869	28679	1.61	2.0E-88	AW068142.1	EST_HUMAN	EST378216 IMAGE resequences, MAGI Homo sapiens cDNA
3840	16939	30001	2.29	2.0E-88	AF158776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
3840	16939	30002	2.28	2.0E-88	AF158776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
4161	17303		2.69	2.0E-88	AF158776.1	EST_HUMAN	h887g08.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2816542 3'
4910	18040	31030	3.21	2.0E-88	AF058490.1	NT	Homo sapiens cAMP-specific phosphodiesterase BA (PDEBA) mRNA, partial cds
5993	19178	32499	1.32	2.0E-88	Z16411.1	NT	H.sapiens mRNA encoding phospholipase c
5993	19178	32500	1.32	2.0E-88	Z16411.1	NT	H.sapiens mRNA encoding phospholipase c
							Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC83214), mRNA
7221	25837	33501	0.78	2.0E-88	11419429	NT	Human Chediak-Higashi syndrome protein short isoform (LYS1) mRNA, complete cds
8199	21281	34803	0.58	2.0E-88	U84744.1	NT	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
8772	21851	35392	2.62	2.0E-88	11437135	NT	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
8772	21851	35393	2.52	2.0E-88	11437135	NT	Homo sapiens phospholipid scramblase 1 (PLSCR1), mRNA
9104	22183	35728	0.68	2.0E-88	10853876	NT	Homo sapiens chromosome segregation 1 (yeast homolog) like (CSE1L), mRNA
9519	22584	36153	1.86	2.0E-88	11422084	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10694	23698	37307	2.9	2.0E-88	11545848	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10694	23698	37308	2.9	2.0E-88	11545848	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10697	23701	37311	0.48	2.0E-88	11417120	NT	Homo sapiens hypothetical protein FLJ20125 (FLJ20125), mRNA
10724	23754	37360	1.25	2.0E-88	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
11143	24215	37842	1.76	2.0E-88	4759051	NT	Homo sapiens ribosomal protein S6 kinase, 90kD, polypeptide 5 (RPS6K45) mRNA
12789	25527	32006	6.3	2.0E-88	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (CZ2P1), mRNA
12880	25638		2.58	2.0E-88	AB011398.1	NT	Homo sapiens gene for AF-8, complete cds
							Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 1 (75kD) (NADH-coenzyme Q reductase) (NDUFS1) mRNA
1627	14779	27884	2.15	1.0E-88	4828855	NT	

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3231	18405	29417	1.68	1.0E-86	5453649	NT	Homo sapiens fibulin 5 (FBLN5) mRNA
3307	18481	29502	2.39	1.0E-88	L20492.1	NT	Human gamma-glutamyl transpeptidase mRNA, complete cds
3388	16540	29553	1.74	1.0E-86	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3368	16540	29554	1.74	1.0E-86	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
4380	17523	30504	5.41	1.0E-86	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4743	17878	30881	0.94	1.0E-86	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
5670	18864	32149	1.85	1.0E-88	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
11805	18864	32149	1.83	1.0E-88	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5472	18672		1.84	9.0E-87	AI150708.1	EST_HUMAN	q577c09.x1 Soares_fetal_heart_Nih-H19W Homo sapiens cDNA clone IMAGE:1706128 3' similar to SW:K1CJ_MOUSE P02535 KERATIN, TYPE I CYTOSKELETAL 10;
7606	20676	34150	1.82	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
7606	20676	34151	1.82	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
492	13688	26720	49.59	8.0E-87	X62245.1	NT	O. cuniculus mRNA for elongation factor 1 alpha
2369	15500	28628	3.27	7.0E-87	BF063211.1	EST_HUMAN	7H85702.x1 NCJ CGAP_Co16 Homo sapiens cDNA clone IMAGE:3322779 3'
2369	15500	28627	3.27	7.0E-87	BF063211.1	EST_HUMAN	7H85702.x1 NCJ CGAP_Co16 Homo sapiens cDNA clone IMAGE:3322779 3'
6530	19684	33097	1.38	7.0E-87	AW890338.1	EST_HUMAN	MRO-NT0039-020500-004-r11 NT0039 Homo sapiens cDNA
8384	21465	34650	0.66	7.0E-87	BF32776.1	EST_HUMAN	IL3-HT0619-060700-198-D10 HT0619 Homo sapiens cDNA
9653	21098	36907	3.38	7.0E-87	BE712961.1	EST_HUMAN	IL5-HT0702-160600-103-d08 HT0702 Homo sapiens cDNA
10278	23311	36907	3.38	7.0E-87	AL043314.2	EST_HUMAN	DKFZp434N0323_J1 434 (synonym: hbs9) Homo sapiens cDNA clone DKFZp434N0323 5'
10278	23311	36908	3.38	7.0E-87	AL043314.2	EST_HUMAN	DKFZp434N0323_J1 434 (synonym: hbs3) Homo sapiens cDNA clone DKFZp434N0323 5'
10686	25955	37825	6.59	7.0E-87	K03002.1	NT	aa59h01.s1 Soares_Nhl-HMPu_ST Homo sapiens cDNA clone IMAGE:1660657 3'
11129	24201	37826	6.59	7.0E-87	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 Intron A
11129	24201	37826	6.59	7.0E-87	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 Intron A
3615	16779	28794	1.19	6.0E-87	7657213	NT	Human sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
6551	18713	33089	1.47	6.0E-87	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
10963	24044		4.48	6.0E-87	11432444	NT	Homo sapiens similar to SET translocation (myeloid leukemia-associated) (H. sapiens) (LOC63102), mRNA
1184	14347	27404	1.82	5.0E-87	AA382811.1	EST_HUMAN	EST196094 Testis Homo sapiens cDNA 5' end
12603	14347	27404	2.58	5.0E-87	AA382811.1	EST_HUMAN	EST196094 Testis Homo sapiens cDNA 5' end
988	14160	27220	1.37	4.0E-87	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1106	14361	27420	7.91	4.0E-87	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
1461	14614	27888	1.31	4.0E-87	R78133.1	EST_HUMAN	y80H10.J1 Soares_placenta_Nb2-IP Homo sapiens cDNA clone IMAGE:145579 5' similar to contains Alu repetitive element;
2088	15226	28348	2.28	4.0E-87	AB007925.1	NT	Homo sapiens mRNA for KIAA458 protein, partial cds

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2143	15279	28402	1.29	4.0E-87	R78133.1	EST_HUMAN	y80f10.r1 Scores placenta Nb2HP Homo sapiens cDNA clone IMAGE:145579 5' similar to contains Alu repetitive element
2143	15279	28403	1.29	4.0E-87	R78133.1	EST_HUMAN	y80f10.r1 Scores placenta Nb2HP Homo sapiens cDNA clone IMAGE:145579 5' similar to contains Alu repetitive element
2493	15620	28738	0.99	4.0E-87	7708209	NT	Homo sapiens CGI-80 protein (LOC51628), mRNA
2493	15620	28739	0.99	4.0E-87	7708209	NT	Homo sapiens CGI-80 protein (LOC51628), mRNA
3553	16718	29732	3.01	4.0E-87	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24) (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA
5562	18759	31798	4.6	4.0E-87	O00321	SWISSPROT	ETS-RELATED PROTEIN 71 (ETS TRANSLLOCATION VARIANT 2)
5869	19059	32368	0.59	4.0E-87	U85428.1	NT	Human transcription factor NFATx3 mRNA, complete cds
6170	19346	32692	4.34	4.0E-87	BE247284.1	EST_HUMAN	TCBAP1E4051 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TC8AP4051
7848	20903	34406	0.71	4.0E-87	11425291	NT	Homo sapiens KIAA1072 protein (KIAA1072), mRNA
7848	20903	34407	0.71	4.0E-87	11425291	NT	Homo sapiens KIAA1072 protein (KIAA1072), mRNA
7950	21000	34510	3.84	4.0E-87	L48524.1	NT	Homo sapiens tuberin (TSC2) gene, exon 10
11437	24498	38165	3.42	4.0E-87	M60678.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
12705	26023	31671	1.27	4.0E-87	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12705	26023	31672	1.27	4.0E-87	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12898	26593	29067	58.7	4.0E-87	11417812	NT	Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RXL1), mRNA
2838	15950	29067	14.35	2.0E-87	4885420	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 4 (HMG4) mRNA
3894	17043	30042	1.02	2.0E-87	AU116935.1	EST_HUMAN	AU116935 HEMBA1 Homo sapiens cDNA clone HEMBA1000307 5'
5033	18161	31138	3.2	2.0E-87	BF376311.1	EST_HUMAN	CMO-TN0038-150900-552-H08 TN0038 Homo sapiens cDNA
5076	18204	31176	0.8	2.0E-87	BE175478.1	EST_HUMAN	RC5-HT0580-200300-Q31-G04 HT0580 Homo sapiens cDNA
5778	18970	32275	12.22	2.0E-87	BE734190.1	EST_HUMAN	601568041F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3943730 5'
5778	18970	32276	12.22	2.0E-87	BE734190.1	EST_HUMAN	601568041F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3943730 5'
6456	18623	33918	4.87	2.0E-87	BE507193.1	EST_HUMAN	601341383F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3683348 5'
6838	18991	33989	0.79	2.0E-87	N48128.1	EST_HUMAN	yw21e07.r1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243398 5'
6920	20235	33968	0.75	2.0E-87	AV654143.1	EST_HUMAN	yw21e07.r1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243398 5'
7324	20406	33968	1.35	2.0E-87	BE294432.1	EST_HUMAN	Human cyclophilin gene for cyclophilin (EC 5.2.1.8)
7374	20453	33918	0.7	2.0E-87	11433048	NT	601278315F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610599 5'
7611	20681	34157	36.59	2.0E-87	N48128.1	EST_HUMAN	Homo sapiens hect domain and RLD 2 (HERC2), mRNA
7864	20918	34424	35.3	2.0E-87	N48128.1	EST_HUMAN	yw21e07.r1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243398 5'
8599	21670	36209	3.35	2.0E-87	X52851.1	NT	Human cyclophilin gene for cyclophilin (EC 5.2.1.8)
9988	23027		4.86	2.0E-87	BE531136.1	EST_HUMAN	601278315F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610599 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1209	15989		2.2	1.0E-87	7705883	NT	Homo sapiens putative glycolipid transfer protein (LOC51054), mRNA
1463	14616	27688	1.61	1.0E-87	AW361877.1	EST_HUMAN	PM2-CT0265-141099-001-g04 CT0265 Homo sapiens cDNA
1463	14616	27689	1.61	1.0E-87	AW361877.1	EST_HUMAN	PM2-CT0265-141099-001-g04 CT0265 Homo sapiens cDNA
3801	16932	28968	5.18	1.0E-87	Y00052.1	NT	Human mRNA for T-cell cyclophilin
3828	16988	28991	2.3	1.0E-87	4768827	NT	Homo sapiens neuroxin III (NRXN3) mRNA
6356	19526	32883	1.63	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
6356	19526	32884	1.63	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
7333	20414	33876	1.09	1.0E-87	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
7558	20630	34105	1.05	1.0E-87	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7707	20772	34257	0.92	1.0E-87	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
8307	21399	34912	9.93	1.0E-87	AF214562.1	NT	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds
9110	22189	35732	0.95	1.0E-87	AB022918.1	NT	Homo sapiens mRNA for alpha2,3-sialyltransferase ST3Gal VI, complete cds
9110	22189	35733	0.95	1.0E-87	AB022918.1	NT	Homo sapiens mRNA for alpha2,3-sialyltransferase ST3Gal VI, complete cds
9833	22873	36456	2.92	1.0E-87	BE318183.1	EST_HUMAN	RC9-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA
9833	22873	36457	2.92	1.0E-87	BE318183.1	EST_HUMAN	RC9-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA
10584	23619	37225	0.88	1.0E-87	M34428.1	NT	Human L-plastin mRNA, 5' end
10970	24050	37683	2.11	1.0E-87	5729867	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
11247	24316		1.66	1.0E-87	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
12701	26190		2.31	1.0E-87	7657632	NT	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA
13228	25798	31890	1.22	1.0E-87	AF169558.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 8
13228	25798	31891	1.22	1.0E-87	AF169558.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 9
1130	14286	27350	8.48	9.0E-88	AF167465.1	NT	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exon 12
1380	14635	27609	2.94	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1389 protein, partial cds
1380	14635	27610	2.94	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1389 protein, partial cds
2189	15324	28449	0.99	9.0E-88	7661701	NT	Homo sapiens DKFZP588P1522 protein (DKFZP588P1522), mRNA
3717	16878	28883	1	9.0E-88	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
4384	17527	30508	2.97	9.0E-88	X91928.1	NT	H. sapiens ECE-1 gene (exon 9)
4384	17527	30509	2.97	9.0E-88	X91928.1	NT	H. sapiens ECE-1 gene (exon 9)
							Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
8223	22301	35845	4.04	6.0E-88	AF003528.1	NT	Homo sapiens KIAA0003 gene product (KIAA0003), mRNA
1875	15019		1.22	5.0E-88	7661887	NT	K9719F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K9719 5' similar to ZINC FINGER PROTEIN HZF1
2704	15822	28839	3.65	5.0E-88	N88398.1	EST_HUMAN	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
3064	16240	28260	0.62	5.0E-88	AF114488.1	NT	

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3075	16251	29272	0.71	5.0E-88	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
3075	16251	29273	0.71	5.0E-88	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
3476	16643		2.78	5.0E-88	AF114488.1	EST_HUMAN	wc68h08.x1 NCJ_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2336799 3' similar to contains Alu repetitive element/contains element MER22 MER22 repetitive element;
3625	16789	29806	0.75	5.0E-88	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
4959	17692	30979	0.71	5.0E-88	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
6910	20225	33656	2.67	5.0E-88	AF114488.1	EST_HUMAN	yr05510.1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:47129 5'
8114	21186	34715	2.67	5.0E-88	AF114488.1	NT	Homo sapiens chromosome 21 segment HS21C084
9512	22577	36143	0.63	5.0E-88	AF114488.1	EST_HUMAN	PM1-TN0028-050900-004-f10 TN0028 Homo sapiens cDNA
1360	14515	27599	0.96	4.0E-88	BF080208.1	EST_HUMAN	PM1-TN0028-050900-004-f10 TN0028 Homo sapiens cDNA
1360	14515	27599	0.96	4.0E-88	BF091226.1	EST_HUMAN	602149702F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4290875 5'
5244	18365	31333	0.65	4.0E-88	BF070714.1	EST_HUMAN	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
7392	20470	33936	1.7	4.0E-88	11416585	NT	Homo sapiens cell division cycle 10 (homologous to CDC10 of S. cerevisiae) (CDC10) mRNA
11150	24221	37849	1.64	4.0E-88	4502084	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
11779	24769	38464	1.72	4.0E-88	7681947	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
11779	24769	38465	1.72	4.0E-88	7681947	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
750	13931	26974	1.25	3.0E-88	11545800	NT	Homo sapiens hypothetical protein FLJ21834 (FLJ21834), mRNA
1855	15001		3.09	3.0E-88	4608020	EST_HUMAN	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
3013	10189	29214	6.08	3.0E-88	N65951.1	EST_HUMAN	za48f12.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:295623 3'
4355	17498	30477	0.81	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4355	17498	30478	0.81	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4600	17737	31590	4.81	3.0E-88	11429300	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
5414	18616	32188	2.79	3.0E-88	11429367	NT	Homo sapiens valosin-containing protein (VCP), mRNA
5703	18898	32188	3.63	3.0E-88	9966888	NT	Homo sapiens valosin-containing protein (VCP), mRNA
5822	19012	32318	0.72	3.0E-88	11420697	NT	Homo sapiens v-src avian sarcoma viral oncogene homolog A (src related) (RALA), mRNA
6290	19463	32815	0.84	3.0E-88	11417370	NT	Homo sapiens interleukin 13 (IL13), mRNA
6543	25826	33080	0.84	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6543	25826	33081	0.84	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
7211	20076	33489	15.52	3.0E-88	AF279265.1	NT	Homo sapiens putative anion transporter 1 mRNA, complete cds
7712	20777	34263	5.63	3.0E-88	11436400	NT	Homo sapiens retinoblastoma-binding protein 2 (RBBP2), mRNA
8105	21187	34707	9.3	3.0E-88	11421726	NT	Homo sapiens growth differentiation factor 5 (cartilage-derived morphogenetic protein-1) (GDF5), mRNA
8390	21471	34997	1.56	3.0E-88	AF034374.1	NT	Homo sapiens myoblasten cofactor biosynthesis protein A and myoblasten cofactor biosynthesis protein C mRNA, complete cds

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8634	21077	34589	2.14	3.0E-88	11526262	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
10132	23170	36767	0.76	3.0E-88	AB015228.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
10132	23170	36768	0.76	3.0E-88	AB015228.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
10102	23199	36794	0.0	3.0E-88	11439085	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
12424	25301		2.49	3.0E-88	11417974	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
12439	26030	31678	1.63	3.0E-88	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
13223	25798	31889	1.31	3.0E-88	11526140	NT	Homo sapiens protease, serine, 7 (enterokinase) (PRSS7), mRNA
1061	14227	27283	8.85	2.0E-88	7305198	NT	Homo sapiens Caldesin, presenilin-binding protein, EF hand transcription factor (CSEN), mRNA
1653	14806	27891	4.24	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
1789	14838	28031	6.83	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3554	16719	28733	2.9	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
4545	17683	30655	1.03	2.0E-88	5031668	NT	Homo sapiens dynein, axonemal, light polypeptide 4 (DNAI4), mRNA
6032	19215	32638	4.08	1.0E-88	AW139585.1	EST_HUMAN	U1-H-B1-eee-d-04-0-U1.s1 NCI CGAP Sub3 Homo sapiens cDNA clone IMAGE:2718760 3'
6032	19215	32638	4.08	1.0E-88	AW139585.1	EST_HUMAN	U1-H-B1-eee-d-04-0-U1.s1 NCI CGAP Sub3 Homo sapiens cDNA clone IMAGE:2718760 3'
6763	19398	33334	21.86	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds
6763	19398	33335	21.66	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds
7271	20354	33807	1.52	1.0E-88	AB060304.1	EST_HUMAN	wq70a12.x1 NCI CGAP_GCB1 Homo sapiens cDNA clone IMAGE:824732 3' similar to WP-B0272.2
7394	20415	33877	3.7	1.0E-88	AA488981.1	EST_HUMAN	ss54a11.s1 NCI CGAP_GCB1 Homo sapiens cDNA clone IMAGE:824732 3' similar to WP-B0272.2
8331	21413	34939	0.51	1.0E-88	AF135183.1	NT	CE00851 ;
9443	22558	36122	0.76	1.0E-88	AA190388.1	EST_HUMAN	Homo sapiens Recq helicase 5 (RECQ5) gene, alternative splice products, complete cds
9778	22618	36398	2.83	1.0E-88	AL043314.2	EST_HUMAN	z087c02.t1 StratoGene HeLa cell s3 837216 Homo sapiens cDNA clone IMAGE:827170 5' similar to SW-POL1_HUMAN P10266 RETROVIRUS-RELATED POL POLYPROTEIN ;
11730	23916	37541	3.35	1.0E-88	AA891479.1	EST_HUMAN	DKFZp434N0323.t1 434 (synonym: htae3) Homo sapiens cDNA clone DKFZp434N0323 5'
12865	25442		4.28	1.0E-88	AL163246.2	NT	os91g03.s1 NCI CGAP_GCB3 Homo sapiens cDNA clone IMAGE:1612768 3' similar to gb-M16342
13232	25800	31850	1.54	1.0E-88	AW451790.1	EST_HUMAN	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEINS C1/C2 (HUMAN);
11194	24263	37898	8.14	9.0E-89	11421238	NT	Homo sapiens chromosome 21 segment HS21C048
2795	15910	29019	1.75	8.0E-89	BE311657.1	EST_HUMAN	U1-H-B13-alk-b-03-0-U1.s1 NCI CGAP Sub5 Homo sapiens cDNA clone IMAGE:2737084 3'
7072	20125	33541	1.14	8.0E-89	11421514	NT	Homo sapiens transgelin 2 (TAGLN2), mRNA
446	13642	26680	1.41	7.0E-89	7657213	NT	601142408.F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3508188 5'
446	13642	26681	1.41	7.0E-89	7657213	NT	Homo sapiens similar to serpin domain, immunoglobulin domain (Ig), short basic domain, secreted, (serpin) 3A (H. sapiens) (LOC89232), mRNA
5005	18134	31108	2.71	7.0E-89	4557390	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
							Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
							Homo sapiens complement component 8, beta polypeptide (C8B) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
129	13616	26656	0.73	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
129	13616	26657	0.73	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
421	13616	26656	0.89	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
421	13616	26657	0.89	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
543	13736	26760	0.63	2.0E-89	AB037763.1	NT	Homo sapiens mRNA for KIAA1342 protein, partial cds
2945	16122	29135	1.53	2.0E-89	AL222095.1	EST_HUMAN	q98c08.x1 Soares_NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYL TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element
4263	17408	30394	1.18	2.0E-89	AF088927.1	NT	Homo sapiens topoisomerase-related function protein (TRF-4-2) mRNA, partial cds
4269	17414	30402	5.14	2.0E-89	X68742.1	NT	H. sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4269	17414	30403	5.14	2.0E-89	X68742.1	NT	H. sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4469	17809	30387	1.13	2.0E-89	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4619	17769	30738	1	2.0E-89	AJ007378.1	NT	Homo sapiens GGT gene, exon 5
5459	18659	31842	1.39	2.0E-89	BE541744.1	EST_HUMAN	601065996F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452423 5'
5598	18783	31842	3.55	2.0E-89	AB007548.1	NT	Homo sapiens gene for LECT2, complete cds
5905	18098	32412	1.5	2.0E-89	U03985.1	NT	Human N-ethylmaleimide-sensitive factor mRNA, partial cds
6339	19509	32685	0.79	2.0E-89	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
7847	20902	34405	5.28	2.0E-89	U81004.1	NT	Human GT24 (GT24) mRNA, partial cds
8119	21201	34722	3.11	2.0E-89	11428801	NT	Homo sapiens solute carrier family 24 (sodium/potassium/calcium exchanger), member 2 (SLC24A2), mRNA
8612	21692	35228	0.9	2.0E-89	AJ245503.1	NT	Homo sapiens partial mRNA for PEX3 related protein
9453	22658	36136	0.72	2.0E-89	AB037754.1	NT	Homo sapiens mRNA for KIAA1333 protein, partial cds
10015	23053	36647	1.22	2.0E-89	AF170814.1	NT	Homo sapiens CabP5 (CABP5) gene, exon 5
10015	23053	36648	1.22	2.0E-89	AF170814.1	NT	Homo sapiens CabP5 (CABP5) gene, exon 5
11655	24794	38425	2.63	2.0E-89	11434411	NT	Homo sapiens Integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3), mRNA
11871	24859	38554	3.52	2.0E-89	11439673	NT	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
12017	25001	38703	1.64	2.0E-89	U10692.1	NT	Human MAGE-7 antigen (MAGE7) pseudogene, complete cds
12877	25584		4.25	2.0E-89	AF156961.1	NT	Homo sapiens human endogenous retrovirus W gagC3.37 G gag (gag) gene, complete cds
11877	24885	38561	6.88	1.0E-89	BF198052.1	EST_HUMAN	h61409.x1 NC1 CGAP Kd11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR-054778 054778 SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN ;
11877	24885	38562	6.88	1.0E-89	BF198052.1	EST_HUMAN	h61409.x1 NC1 CGAP Kd11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR-054778 054778 SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN ;

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8422	21603	35035	1.07	9.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
8422	21603	35036	1.07	9.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1088	14254	27309	4.38	8.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1089	14254	27309	2.91	8.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1361	16035	27581	3.26	8.0E-90	BE570581.1	EST_HUMAN	7a36f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3'
1361	16035	27582	3.26	8.0E-90	BE570581.1	EST_HUMAN	7a36f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3'
8757	21836	35377	0.6	8.0E-90	BE177830.1	EST_HUMAN	RC1-HT0588-120400-022-b08 HT0588 Homo sapiens cDNA
10939	24021	37654	1.38	8.0E-90	A1222095.1	EST_HUMAN	cg96c08.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYL TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
10939	24021	37655	1.38	8.0E-90	A1222095.1	EST_HUMAN	cg96c08.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYL TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
859	14036		6.81	7.0E-90	AF223301.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
8619	21699		2.14	7.0E-90	AA782977.1	EST_HUMAN	af63d08.at Scores_testis_NHT Homo sapiens cDNA clone 1375503 3'
9166	22244	35787	2.13	7.0E-90	BE982526.2	EST_HUMAN	601655837R1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855824 3'
9166	22244	35788	2.13	7.0E-90	BE982525.2	EST_HUMAN	601655837R1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855824 3'
10220	23256	36944	0.46	7.0E-90	AW273784.1	EST_HUMAN	x124602.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2814026 3'
10340	23375	36985	4.2	7.0E-90	H68849.1	EST_HUMAN	y68604.s1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212190 3' similar to SP:C1TC_HUMAN P11588 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC;
10340	23375	36986	4.2	7.0E-90	H68849.1	EST_HUMAN	y68604.s1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212190 3' similar to SP:C1TC_HUMAN P11588 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC;
10672	23708	37314	0.82	7.0E-90	BF532608.1	EST_HUMAN	602071208F1 NCI_CGAP_Bn64 Homo sapiens cDNA clone IMAGE:4214257 5'
3136	16312	28324	1.16	6.0E-90	X91926.1	NT	H. sapiens ECE-1 gene (exon 6)
3136	16312	28325	1.16	6.0E-90	X91926.1	NT	H. sapiens ECE-1 gene (exon 6)
4342	17485	30467	11.21	6.0E-90	8922398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
4342	17485	30468	11.21	6.0E-90	8922398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
6105	18285	32618	2.84	6.0E-90	U77700.1	NT	Homo sapiens HsGCN1 mRNA, partial cds
6105	18285	32619	2.84	6.0E-90	U77700.1	NT	Homo sapiens HsGCN1 mRNA, partial cds
8522	21603	35140	4.01	6.0E-90	4504794	NT	Homo sapiens Inositol 1,4,5-trisphosphate receptor, type 3 (ITPR3) mRNA
8522	21603	35141	4.01	6.0E-90	4504794	NT	Homo sapiens Inositol 1,4,5-trisphosphate receptor, type 3 (ITPR3) mRNA
159	13394		27.59	5.0E-90	AB035344.1	NT	Homo sapiens TOL6 gene, exon 1-10b
1219	14380	27439	6.22	5.0E-90	U80228.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1864	15010	28118	1.07	5.0E-60	A1222095.1	EST_HUMAN	qg98-08.x1 Soares_NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gbtJ04131 GAMMA-GLUTAMYL-TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
1864	15010	28117	1.07	5.0E-60	A1222095.1	EST_HUMAN	qg98-08.x1 Soares_NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gbtJ04131 GAMMA-GLUTAMYL-TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
2622	15745	28859	2.37	5.0E-60	AF114487.1	NT	Homo sapiens Intersectin long isoform (ITSN) mRNA, complete cds
4662	17797	30784	4.51	5.0E-60	4506354	NT	Homo sapiens pregnancy-zone protein (PZP) mRNA
4683	17818	30806	0.78	5.0E-60	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
5708	18901	32186	2.85	5.0E-60	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
5726	18919		0.72	5.0E-60	AF008915.1	NT	Homo sapiens EVI5 homolog mRNA, complete cds
5810	19000	32307	1.32	5.0E-60	AB015817.1	NT	Homo sapiens ELKS mRNA, complete cds
6886	18901	32186	1.88	5.0E-60	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
6889	20021	33430	0.95	5.0E-60	9810365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC568934). mRNA
6889	20021	33431	0.95	5.0E-60	9810365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC568934). mRNA
7364	20443	33905	2.04	5.0E-60	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7364	20443	33908	2.04	5.0E-60	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7736	20797	34286	7.98	5.0E-60	4557258	NT	Homo sapiens adenylylase cyclase 9 (ADCY9) mRNA
8488	21569	35107	4.89	5.0E-60	11345483	NT	Homo sapiens hypofunctional protein FLJ13222 (FLJ13222). mRNA
9882	22922	36506	1.17	5.0E-60	11419429	NT	Homo sapiens similar to ecdynucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC563214), mRNA
10488	23523	37193	0.71	5.0E-60	AF123303.1	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
10663	23697	37306	9.86	5.0E-60	11433721	NT	Homo sapiens ATPase, aminophospholipid transporter-like, Class I, type 8A, member 2 (ATP8A2), mRNA
10723	23756	37362	0.53	5.0E-60	7662051	NT	Homo sapiens KIAA0317 gene product (KIAA0317). mRNA
10723	23756	37363	0.53	5.0E-60	7662051	NT	Homo sapiens KIAA0317 gene product (KIAA0317). mRNA
12948	25659		1.77	5.0E-60	AB011399.1	NT	Homo sapiens gene for AF-8, complete cds
13000	25849		4.54	5.0E-60	A1523366.1	EST_HUMAN	af78h05.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2128761 3'
313	13529	26562	2.04	4.0E-60	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
313	13529	26563	2.04	4.0E-60	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
1110	14275	27392	4.36	4.0E-60	4505316	NT	Homo sapiens myosin phosphatase, target subunit 1 (MYPT1), mRNA
1724	14874	27968	13.42	4.0E-60	X98033.1	NT	H. sapiens gene encoding discoidin receptor tyrosine kinase, exon 16
2923	16101	29114	0.74	4.0E-60	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
2923	16101	29115	0.74	4.0E-60	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3088	16264	29281	0.93	4.0E-90	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3088	16284	29282	0.93	4.0E-90	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
4779	17914	30900	3.63	4.0E-90	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4919	18049	31037	2.1	4.0E-90	AB033070.1	NT	Homo sapiens mRNA for KIAA1244 protein, partial cds
4939	18069	31047	1.91	4.0E-90	M95967.1	NT	Human prothrombin converting enzyme (NEC2) gene, exon 8
12895	18101	29114	1.74	4.0E-90	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12885	18101	29115	1.74	4.0E-90	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
8036	21119	34638	0.91	3.0E-90	BF516188.1	EST_HUMAN	UIH-BW1-amy-b-04-Q-U1.s1 NCI_OGAP_Sub7 Homo sapiens cDNA clone IMAGE:3068839 3'
8036	21119	34639	0.91	3.0E-90	BF516188.1	EST_HUMAN	UIH-BW1-amy-b-04-Q-U1.s1 NCI_OGAP_Sub7 Homo sapiens cDNA clone IMAGE:3068839 3'
11930	24916	38619	28.7	3.0E-90	BE563833.1	EST_HUMAN	601335244F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3453834 5'
220	13442	26473	4.5	2.0E-90	BE537913.1	EST_HUMAN	601067378F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453834 5'
1200	14362	27421	6.48	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1200	14362	27422	6.48	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
3048	17106	30103	2.95	2.0E-90	AI138213.1	EST_HUMAN	q54-02.x1 Soares_placenta_8weeks_2NblpRacSW Homo sapiens cDNA clone IMAGE:1713410 3'
4811	17944	30630	1.05	2.0E-90	AB006627.1	NT	similar to SW-OLF3 MOUSE P23275 OLFACTORY RECEPTOR OR3.;
5029	18158	31135	10.16	2.0E-90	5729855	NT	Homo sapiens mRNA for KIAA0289 gene, partial cds
5898	19084	32395	0.6	2.0E-90	11625601	NT	Homo sapiens GRB2-related adaptor protein (GRAP) mRNA
5898	19084	32396	0.6	2.0E-90	11625601	NT	Homo sapiens Rap2 interacting protein 8 (RPIP8), mRNA
5903	19092	32408	3.89	2.0E-90	AW672686.1	EST_HUMAN	be49d05.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2869681 5' similar to TR-O75208 O75208
5903	23032	36623	0.99	2.0E-90	11427320	NT	HYPOTHETICAL 35.5 KD PROTEIN.;
9993	23032	36624	0.99	2.0E-90	11427320	NT	Homo sapiens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. sapiens) (LOC83484), mRNA
10165	23202	36796	1.46	2.0E-90	AU118985.1	EST_HUMAN	Homo sapiens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. sapiens) (LOC83484), mRNA
10165	23202	36798	1.46	2.0E-90	AU118985.1	EST_HUMAN	AU118985 HEMBA1 Homo sapiens cDNA clone HEMBA1004795 5'
11758	23944	37571	3.06	2.0E-90	11024711	NT	AU118985 HEMBA1 Homo sapiens cDNA clone HEMBA1004795 5'
287	13505	26539	4.1	1.0E-90	4502166	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
385	15983	26628	2.28	1.0E-90	AF231920.1	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
386	15983	26628	1.56	1.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
713	13895	26932	1.92	1.0E-90	AJ237589.1	NT	Homo sapiens chromosome 21 unknown mRNA
713	13895	26933	1.92	1.0E-90	AJ237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
748	13929	26971	17.93	1.0E-90	AF264760.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
748	13929	26972	17.53	1.0E-90	AF264760.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1134	14269		2.25	1.0E-90	4507828	NT	Homo sapiens Knipfel-like factor 7 (ubiquitous) (KLF7), mRNA
1334	14491	27560	3.46	1.0E-90	AF098154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1334	14491	27561	3.46	1.0E-90	AF098154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1701	14853		2.67	1.0E-90	BE379884.1	EST_HUMAN	601158563F2 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3511118 5'
1951	15094	28195	3.73	1.0E-90	11420514	NT	Homo sapiens similar to SALL1 (sal (Drosophila))-like (LOC57167), mRNA
2816	16063	29106	6.46	1.0E-90	6005720	NT	Homo sapiens chromosome 8 open reading frame 2 (C8ORF2), mRNA
3954	17112	30112	0.59	1.0E-90	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
3954	17112	30113	0.59	1.0E-90	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
4543	17681	30663	1.68	1.0E-90	AF167340.1	NT	Homo sapiens soluble Interleukin 1 receptor accessory protein (IL1RAP) gene, exon 8, alternative exons 9 and complete cds, alternatively spliced
6792	18983	32288	2.08	1.0E-90	AB014533.1	NT	Homo sapiens mRNA for KIAA0638 protein, partial cds
5959	19145	32460	0.9	1.0E-90	114268910	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7220	20085	33500	0.73	1.0E-90	U91934.1	NT	Human retina-derived POU-domain factor-1 mRNA, complete cds
7849	20804	34408	2.31	1.0E-90	11426758	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 8 (SLC1A6), mRNA
9021	22100	35640	3	1.0E-90	11422038	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
9493	22550		0.92	1.0E-90	AF163884.1	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
9516	22581	36148	1.4	1.0E-90	11422109	NT	Homo sapiens CGI-15 protein (LOC51006), mRNA
9518	22581	36149	1.4	1.0E-90	11422109	NT	Homo sapiens CGI-15 protein (LOC51006), mRNA
4313	17456	30444	8.29	8.0E-91	D12234.1	EST_HUMAN	Homo sapiens CGH-15 protein (LOC51006), mRNA
8501	21582	35118	1.14	7.0E-91	11419234	NT	HUM0005381 Liver HepG2 cell line. Homo sapiens cDNA clone s381 3'
10807	23542	37163	0.65	7.0E-91	AB04161.1	EST_HUMAN	Homo sapiens makorin, ring finger protein, 1 (MKRN1), mRNA
3563	16728	29744	1.86	5.0E-91	AA702794.1	EST_HUMAN	CM-BT043-090299-075 BT043 Homo sapiens cDNA
4639	17775	30755	1.14	5.0E-91	AU143539.1	EST_HUMAN	250004.s1 Soares fetal liver, spleen, INFLS, S1 Homo sapiens cDNA clone IMAGE:448015 5'
4639	17775	30756	1.14	5.0E-91	AU143539.1	EST_HUMAN	250004.s1 Soares fetal liver, spleen, INFLS, S1 Homo sapiens cDNA clone Y78AA1002087 5'
4930	18060	31042	0.57	5.0E-91	7110634	NT	AU143539 Y78AA1 Homo sapiens cDNA clone Y78AA1002087 5'
4930	18060	31043	0.57	5.0E-91	7110634	NT	AU143539 Y78AA1 Homo sapiens cDNA clone Y78AA1002087 5'
4930	18060	31043	0.57	5.0E-91	7110634	NT	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
4930	18060	31043	0.57	5.0E-91	7110634	NT	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
6760	19906	33300	1.25	5.0E-91	AB179905.1	EST_HUMAN	eu4909.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518121 3' similar to SW:ASPG_FLAME Q47898 N4-(BETA-N-ACETYLGLUCOSAMINYL)-L-ASPARAGINASE PRECURSOR
8400	21481	35009	1.33	5.0E-91	BF314682.1	EST_HUMAN	601601624F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130633 5'
8960	22039	35581	1.47	5.0E-91	AV649878.1	EST_HUMAN	AV649878 GLC Homo sapiens cDNA clone GLC8YF08 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8960	22039	35582	1.47	5.0E-01	AV649878.1	EST_HUMAN	AV649878 GLC Homo sapiens cDNA clone GLCBYF08 3'
12971	26631		1.61	5.0E-01	AI193568.1	EST_HUMAN	qet0f11.x1 Soares_fetal_lung_NHLL19W Homo sapiens cDNA clone IMAGE:1744395 3' similar to contains
3272	16448	29465	1.58	4.0E-01	AF156776.1	NT	MIR.b2 MIR MIR repetitive element;
3272	16448	29466	1.58	4.0E-01	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
11171	24242	37875	3.22	4.0E-01	AL163284.2	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
12376	25287	32074	3.27	4.0E-01	M77894.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
12376	25287	32119	3.27	4.0E-01	M77894.1	EST_HUMAN	EST01578 Hippocampus, Stratagene (cat. #836205) Homo sapiens cDNA clone HHCMC80 similar to
12885	25457	32019	1.16	4.0E-01	M77894.1	EST_HUMAN	Retrovirus-related gag polyprotein
12885	25457	32020	1.16	4.0E-01	M77894.1	EST_HUMAN	EST01579 Hippocampus, Stratagene (cat. #836205) Homo sapiens cDNA clone HHCMC80 similar to
1947	14800	27885	2.17	3.0E-01	11430183	NT	Retrovirus-related gag polyprotein
1647	14800	27886	2.17	3.0E-01	11430183	NT	EST01579 Hippocampus, Stratagene (cat. #836205) Homo sapiens cDNA clone HHCMC80 similar to
1832	15953	28077	1.1	3.0E-01	AF265555.1	NT	Retrovirus-related gag polyprotein
3420	16589	28605	1.29	3.0E-01	AL163283.2	NT	EST01579 Hippocampus, Stratagene (cat. #836205) Homo sapiens cDNA clone HHCMC80 similar to
3651	16716	29729	4.85	3.0E-01	AB033104.1	NT	Retrovirus-related gag polyprotein
3551	16716	29730	4.85	3.0E-01	AB033104.1	NT	EST01579 Hippocampus, Stratagene (cat. #836205) Homo sapiens cDNA clone HHCMC80 similar to
3888	17047	30047	0.93	3.0E-01	AF084930.1	NT	Retrovirus-related gag polyprotein
4714	17849	30832	4.41	3.0E-01	M80838.1	NT	EST01579 Hippocampus, Stratagene (cat. #836205) Homo sapiens cDNA clone HHCMC80 similar to
5094	18222	31193	1.48	3.0E-01	AL163285.2	NT	Retrovirus-related gag polyprotein
5094	18222	31194	1.48	3.0E-01	AL163285.2	NT	EST01579 Hippocampus, Stratagene (cat. #836205) Homo sapiens cDNA clone HHCMC80 similar to
5803	18993	32286	3.55	3.0E-01	11434984	NT	Retrovirus-related gag polyprotein
6434	18602		2.56	3.0E-01	4502740	NT	EST01579 Hippocampus, Stratagene (cat. #836205) Homo sapiens cDNA clone HHCMC80 similar to
6713	19871	33202	2.98	3.0E-01	11497611	NT	Retrovirus-related gag polyprotein
6713	19871	33283	2.98	3.0E-01	11497611	NT	EST01579 Hippocampus, Stratagene (cat. #836205) Homo sapiens cDNA clone HHCMC80 similar to
7818	20871	34368	4.48	3.0E-01	U86959.1	NT	Retrovirus-related gag polyprotein
7818	20871	34369	4.48	3.0E-01	U86959.1	NT	EST01579 Hippocampus, Stratagene (cat. #836205) Homo sapiens cDNA clone HHCMC80 similar to
8132	21214	34735	0.69	3.0E-01	6601689	NT	Retrovirus-related gag polyprotein
8970	22048	35592	2.73	3.0E-01	D16494.1	NT	EST01579 Hippocampus, Stratagene (cat. #836205) Homo sapiens cDNA clone HHCMC80 similar to

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9488	22545	38108	0.73	3.0E-01	AB011168.1	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
11480	24539	38207	1.49	3.0E-01	AB028003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
11480	24539	38208	1.49	3.0E-01	AB028003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
13037	18488	31430	8.64	3.0E-01	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
13037	18488	31431	8.64	3.0E-01	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
49	13288	26300	2.94	1.0E-01	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
1274	14431	27502	2.74	1.0E-01	AW449748.1	EST_HUMAN	U-H-B13-aks-d-01-0-U1s1 NCJ CGAP Sub5 Homo sapiens cDNA clone IMAGE:2735280 3'
5529	18726	31742	0.78	1.0E-01	BF348182.1	EST_HUMAN	Homo sapiens hypothetical protein PRO1855 (PRO1855), mRNA
6863	20211	33640	1.96	1.0E-01	BF348182.1	EST_HUMAN	602022088F1 NCJ CGAP Bm67 Homo sapiens cDNA clone IMAGE:4157804 5'
6863	20211	33641	1.96	1.0E-01	BF348182.1	EST_HUMAN	602022088F1 NCJ CGAP Bm67 Homo sapiens cDNA clone IMAGE:4157804 5'
12130	25110	38814	1.48	1.0E-01	AV763053.1	EST_HUMAN	AV763053 MDS Homo sapiens cDNA clone MDSBEC05 5'
12540	26114		1.5	1.0E-01	H15212.1	EST_HUMAN	ym30e03.r1 Scores Infant brain T118 Homo sapiens cDNA clone IMAGE:46587 5'
1270	14428	27498	5.77	9.0E-02	AJ001689.1	NT	Homo sapiens NKGD2 gene, exon 10
1270	14428	27497	5.77	9.0E-02	AJ001689.1	NT	Homo sapiens NKGD2 gene, exon 10
5309	18426	31398	0.66	9.0E-02	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
5579	18774	31820	5.86	9.0E-02	J03007.1	NT	Human Na ⁺ K ⁺ ATPase alpha-subunit mRNA, partial cds
5722	18915	32210	2.62	9.0E-02	11427149	NT	Homo sapiens hypothetical protein FLJ20280 (FLJ20280), mRNA
6583	19745	33127	3.77	9.0E-02	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
8041	21124	34644	0.56	9.0E-02	AJ250568.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
8041	21124	34645	0.55	9.0E-02	AJ250568.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
8569	21650	35191	1.63	9.0E-02	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
8569	21650	35192	1.53	9.0E-02	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
9474	22531	36095	1.83	9.0E-02	11422088	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
95	13330	26357	6.63	8.0E-02	W26367.1	EST_HUMAN	263 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
296	13513	26547	3.09	8.0E-02	BE388363.1	EST_HUMAN	601273519F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614867 5'
1868	15012	28119	1.43	8.0E-02	11434722	NT	Homo sapiens diacylglycerol kinase, gamma (90KD) (DGKG), mRNA
1868	15012	28120	1.43	8.0E-02	11434722	NT	Homo sapiens diacylglycerol kinase, gamma (90KD) (DGKG), mRNA
6508	18707	31722	0.68	8.0E-02	AB046820.1	NT	Homo sapiens mRNA for KIAA1600 protein, partial cds
						NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
5615	18909	31877	0.8	8.0E-02	AF284717.1	NT	Homo sapiens MCP-4 gene
6677	19836	33225	1.28	8.0E-02	AJ000978.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit variant 1 (REV3L) mRNA, complete cds
6860	19839	33228	0.91	8.0E-02	AF179428.1	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
8283	21365		0.55	8.0E-02	11416961	NT	Homo sapiens lens membrane protein (mp18) gene, exon 11
8620	21700	35235	5.05	8.0E-02	LD4183.1	NT	

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8620	21700	35236	5.05	8.0E-02	L04183.1	NT	Human lens membrane protein (mp19) gene, exon 11
8721	21601	35337	0.71	8.0E-02	11426569	NT	Homo sapiens transcription termination factor, RNA polymerase II (TTF2), mRNA
9282	22339	35888	2.53	8.0E-02	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10232	23257	36857	0.91	8.0E-02	Y13828.1	NT	Homo sapiens mRNA for MBNL protein
11043	24121	37765	2.86	8.0E-02	AF074393.1	NT	Homo sapiens nuclear mitogen- and stress-activated protein kinase-1 (MSK1) mRNA, complete cds
11642	24722	38415	1.93	8.0E-02	4503340	NT	Homo sapiens dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex) (DLST) mRNA
12740	25491	32028	1.59	8.0E-02	11434704	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
68	13305	26328	1.91	7.0E-02	M80676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
246	16008	28408	1.71	7.0E-02	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
246	16008	28498	1.71	7.0E-02	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
604	13793	27533	1.68	7.0E-02	AF07822.1	NT	Homo sapiens cytoplasmic Secrase truncated isoform mRNA, complete cds
1309	14465	27533	1.94	7.0E-02	4502384	NT	Homo sapiens B-cell CLL/lymphoma 7b (BCL7B) mRNA
2260	15393	28519	3.85	7.0E-02	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2260	15393	28520	3.85	7.0E-02	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2830	15753	28868	6.13	7.0E-02	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S62 precursor, mRNA, complete cds
2787	15903	29010	6.84	7.0E-02	6005738	NT	Homo sapiens NRAS-related gene (D1S155E), mRNA
3428	18466	29609	0.7	7.0E-02	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
3428	18466	29610	0.7	7.0E-02	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
4710	17845	30828	1.19	7.0E-02	S71824.1	NT	N-CAM=145 kDa neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2960 nt]
4710	17845	30829	1.19	7.0E-02	S71824.1	NT	N-CAM=145 kDa neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2960 nt]
5284	18403	31371	0.98	7.0E-02	4506118	NT	Homo sapiens prospero-related homeobox 1 (PROX1) mRNA
6375	18578	31446	6.51	7.0E-02	AA446206.1	EST_HUMAN	z668412.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781175 5'
2178	15313	28441	0.96	3.0E-02	11434814	NT	Homo sapiens Machado-Joseph disease (spinocerebellar ataxia 3, autosomal dominant, ataxin 3) (MJD), mRNA
2178	15313	28442	0.96	3.0E-02	11434814	NT	Homo sapiens Machado-Joseph disease (spinocerebellar ataxia 3, autosomal dominant, ataxin 3) (MJD), mRNA
2824	16938	29048	2.74	3.0E-02	BE509714.1	EST_HUMAN	601501242F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902939 5'
5997	19182	32504	3.96	3.0E-02	AA578336.1	EST_HUMAN	ES181020 Synovial sarcoma Homo sapiens cDNA 5' end similar to ribosomal protein S13
11002	24081	37716	3.26	3.0E-02	X15804.1	NT	Human mRNA for alpha-actinin
11002	24081	37717	3.26	3.0E-02	X15804.1	NT	Human mRNA for alpha-actinin

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12878	28198		1.57	3.0E-02	BF367138.1	EST_HUMAN	RC1-GEN0021-240800-012-e11 GN0021 Homo sapiens cDNA
26	13264	28266	1.54	2.0E-02	4501898	NT	Homo sapiens activin A receptor, type IIB (ACVR2B) mRNA
183	13405	28433	4.28	2.0E-02	11422846	NT	Homo sapiens hypothetical protein dJ462023.2 (DJ462023.2), mRNA
183	13405	28434	4.28	2.0E-02	11422846	NT	Homo sapiens hypothetical protein dJ462023.2 (DJ462023.2), mRNA
768	13949	28697	5.49	2.0E-02	BE289180.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
768	13949	28698	5.49	2.0E-02	BE289180.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
1752	14801		1.62	2.0E-02	S78653.1	NT	myo-fines-related [Human, Genomic, 2416 nt]
1990	15132	28236	2.83	2.0E-02	AB181119.1	EST_HUMAN	Wk27407.x1 NCI_CGAP_Bin25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844
1990	15132	28237	2.83	2.0E-02	AB181119.1	EST_HUMAN	Q12844 BREAKPOINT CLUSTER REGION PROTEIN;
2020	15161	28265	1.01	2.0E-02	4507464	NT	Wk27407.x1 NCI_CGAP_Bin25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844
2020	15161	28266	1.01	2.0E-02	4507464	NT	Q12844 BREAKPOINT CLUSTER REGION PROTEIN;
2106	15245	28366	5.35	2.0E-02	4508860	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
2725	15943	28854	22.36	2.0E-02	6912457	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
3701	16862	28864	1.02	2.0E-02	AF231819.1	NT	Homo sapiens syndecan 4 (amphiglycan, rydooan) (SDC4) mRNA
3701	16862	28865	1.02	2.0E-02	AF231819.1	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
3777	16938	28944	7.02	2.0E-02	5803180	NT	Homo sapiens chromosome 21 unknown mRNA
4403	17546	30530	1.17	2.0E-02	M10978.1	NT	Homo sapiens stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein) (STIP1), mRNA
5108	18236		4.1	2.0E-02	AL040437.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
5879	19059	32377	0.64	2.0E-02	AF016535.1	NT	DKFZp434C0414.1_1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434C0414.5
6481	19569		7.19	2.0E-02	4504756	NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds
6748	19804	33297	2.8	2.0E-02	AB028891.1	NT	Homo sapiens Integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide) (ITGAL) mRNA
7627	20597		0.61	2.0E-02	U67780.1	NT	Homo sapiens mRNA for KIAA1083 protein, partial cds
7657	20687		0.64	2.0E-02	U67780.1	NT	Human NPY Y1-like receptor pseudogene mRNA, complete cds
9056	22135	35680	1.26	2.0E-02	AW340174.1	EST_HUMAN	Human NPY Y1-like receptor pseudogene mRNA, complete cds
10997	24076	37709	4.68	2.0E-02	11434900	NT	hd02h02x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2808371 3' similar to TR:002711
11257	24328	37865	3.22	2.0E-02	11434759	NT	002711 PRO-POL-DUTPASE POLYPROTEIN;
11409	24470	38134	5.71	2.0E-02	AW836290.1	EST_HUMAN	Homo sapiens thyroid stimulating hormone receptor (TSHR), mRNA
11409	24470	38135	5.71	2.0E-02	AW836290.1	EST_HUMAN	Homo sapiens zinc finger protein 198 (ZNF198), mRNA
12758	25502	32035	8.46	2.0E-02	AB029016.1	NT	CNA4.LT0028-161299-062-g08 LT0028 Homo sapiens cDNA
							CNA4.LT0028-161299-062-g06 LT0028 Homo sapiens cDNA
							Homo sapiens mRNA for KIAA1083 protein, partial cds

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
12782	25524	32005	1.38	2.0E-02	AF106856.1	NT	Homo sapiens adenylosuccinate lyase gene, complete cds
13066	15843	28954	73.58	2.0E-02	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1897	15040	28150	2.95	1.0E-02	R78078.1	EST_HUMAN	Y80508.1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5'
1897	15040	28151	2.95	1.0E-02	R78078.1	EST_HUMAN	Y80508.1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5'
2135	15271	28392	35.12	1.0E-02	4506668	NT	Homo sapiens ribosomal protein, large, P1 (RPLP1) mRNA
6441	21522	35051	0.82	1.0E-02	BE439625.1	EST_HUMAN	HTM1-288F HTM1 Homo sapiens cDNA
9365	22440	35989	3.24	1.0E-02	AI380356.1	EST_HUMAN	ig01b02.x1 NCL CGAP CLL1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 ; contains Alu repetitive element; contains element MER17 repetitive element ;
9365	22440	36000	3.24	1.0E-02	AI380356.1	EST_HUMAN	ig01b02.x1 NCL CGAP CLL1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 ; contains Alu repetitive element; contains element MER17 repetitive element ;
2085	15225	28347	3.53	9.0E-03	AU121681.1	EST_HUMAN	AU121681 MAMMA1 Homo sapiens cDNA clone MAMMA1000738 5'
2100	15240		20.41	9.0E-03	AA316723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' and similar to ribosomal protein L28
2712	15830		1.69	9.0E-03	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3703	16864	26867	1.35	9.0E-03	BE388571.1	EST_HUMAN	601281867F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3803832 5'
11947	24833	33271	7.79	9.0E-03	11418528	NT	Homo sapiens ribosomal protein L10a (RPL10A), mRNA
6723	19880		2.4	8.0E-03	BF036384.1	EST_HUMAN	601460521F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3863908 5'
2558	13475	26508	7.25	7.0E-03	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3144	16320	26332	0.74	6.0E-03	AB033093.1	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
6819	19872	33380	0.97	6.0E-03	AF095771.1	NT	Homo sapiens PTH-responsive osteosarcoma B1 protein (B1) mRNA, complete cds
7056	20109	33525	7.64	6.0E-03	AF095771.1	NT	Homo sapiens PTH-responsive osteosarcoma B1 protein (B1) mRNA, complete cds
1412	14568	27640	0.99	5.0E-03	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
1439	14592	27666	4.61	5.0E-03	AI674184.1	EST_HUMAN	Homo sapiens mRNA for KIAA0611 protein, partial cds
1439	14592	27667	4.61	5.0E-03	AI674184.1	EST_HUMAN	ig09c08.x1 NCL CGAP P728 Homo sapiens cDNA clone IMAGE:2314670 3'
1504	14667		4.17	5.0E-03	AL163201.2	NT	ig09c08.x1 NCL CGAP P728 Homo sapiens cDNA clone IMAGE:2314670 3'
1869	16049	28123	1.03	5.0E-03	AJ297710.1	NT	Homo sapiens chromosome 21 segment HS21C001
3305	16479	29500	3.73	5.0E-03	X04201.1	NT	Homo sapiens mRNA for CDC2L5 protein kinase, (CDC2L5 gene), isoform 2
5620	19107	32420	1.09	5.0E-03	M22878.1	NT	Homo sapiens skeletal muscle 1.3 kb mRNA for tropomyosin
6235	19410		1.75	6.0E-03	AF045555.1	NT	Human skeletal muscle 1.3 kb mRNA for tropomyosin
						NT	Human somatic cytochrome c (hC1) processed pseudogene, complete cds
						NT	Homo sapiens wbsor1 (WBSOR1) and wbsor5 (WBSOR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7892	20944	34450	3.52	5.0E-03	AF067136.1	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 11, complete cds and alternatively spliced product
8804	21883	35422	0.73	5.0E-03	4557628	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
8804	21883	35423	0.73	5.0E-03	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
9822	22892	36443	2.02	5.0E-03	AF274893.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
10012	23050	36944	1.35	5.0E-03	5032158	NT	Homo sapiens TAR (HIV) RNA-binding protein 1 (TARBP1) mRNA
10275	23310	36908	1.78	5.0E-03	AF069313.2	NT	Homo sapiens WSB1 protein (WSB1) mRNA, complete cds
11084	24140	37775	1.92	5.0E-03	11439599	NT	Homo sapiens nucleobindin 2 (NUCB2), mRNA
12651	25791	31921	2.31	5.0E-03	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
90	13325		5.63	4.0E-03	AA458933.1	EST_HUMAN	z60409.81 Soares_NHT Homo sapiens cDNA clone IMAGE:786888 3' similar to SW:CLPA_RAT P37397 CALPONIN, ACIDIC ISOFORM:
458	13653	26690	2.38	4.0E-03	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
458	13653	26691	2.38	4.0E-03	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
793	13972	27024	1.16	4.0E-03	7657454	NT	Homo sapiens pascadillo (zabrafish) homolog 1, containing BRCT domain (PES1), mRNA
793	13972	27025	1.16	4.0E-03	7657454	NT	Homo sapiens pascadillo (zabrafish) homolog 1, containing BRCT domain (PES1), mRNA
1210	14371	27431	2.12	4.0E-03	8923658	NT	Homo sapiens hypothetical protein FLJ20731 (FLJ20731), mRNA
2033	15174	28284	4.37	4.0E-03	AF047677.1	NT	Homo sapiens dystrophin (DMD) gene, deletion breakpoints 1-3 in intron 5
2318	15450	28582	1.19	4.0E-03	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
2672	15702	28909	1.16	4.0E-03	7666972	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
3658	16819	28831	0.73	4.0E-03	7705398	NT	Homo sapiens tumor antigen SLP-8p (HCC8), mRNA
4159	17310	30308	1.51	4.0E-03	4504654	NT	Homo sapiens interleukin 18 receptor 1 (IL18R1) mRNA
5136	16819	28831	0.76	4.0E-03	7705398	NT	Homo sapiens tumor antigen SLP-8p (HCC8), mRNA
5760	18952	32255	5.01	4.0E-03	T46864.1	EST_HUMAN	y694c12.11 Stratagene liver (H837224) Homo sapiens cDNA clone IMAGE:78838 5' similar to similar to SP:A44391 A44391 SERUM RESPONSE ELEMENT-BINDING PROTEIN SRE-ZBP - HUMAN,
11398	24459	38123	10.47	4.0E-03	AV692051.1	EST_HUMAN	AV692051 GK6 Homo sapiens cDNA clone GKCDRF07 5'
3742	16903	29906	12.26	3.0E-03	BF690630.1	EST_HUMAN	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332038 5'
3742	16903	29907	12.26	3.0E-03	BF690630.1	EST_HUMAN	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332038 5'
4350	17493		2.6	3.0E-03	AF225898.1	NT	Homo sapiens tensin mRNA, complete cds
6893	16851	33242	1.31	3.0E-03	11426182	NT	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homolog)-like 2 (GCN5L2), mRNA
11040	24119	37762	2.86	3.0E-03	AB24829.1	EST_HUMAN	WB02405.x1 NC1 CGAP GC6 Homo sapiens cDNA clone IMAGE:2304488 3'
196	13418	26447	5.59	2.0E-03	AB015610.1	NT	Chlorococcus aesthiops mRNA for ribosomal protein S4X, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
195	13418	26448	5.69	2.0E-03	AB015810.1	NT	Chlorococcus aethiops mRNA for ribosomal protein S4X, complete cds
333	13547	26578	13.77	2.0E-03	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
334	13547	26578	6.74	2.0E-03	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
1646	14739	27884	3.9	2.0E-03	AF225896.1	NT	Homo sapiens tensin mRNA, complete cds
2199	16334	28461	2.23	2.0E-03	U40763.1	NT	Human Ck-associated RS cyclophilin CARS-Cyp mRNA, complete cds
2555	15880	28906	1.02	2.0E-03	BE252882.1	EST_HUMAN	601117586F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3358220 5'
5254	18374	31340	1.19	2.0E-03	BE253201.1	EST_HUMAN	601117586F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3357243 5'
5533	18730	31746	5.08	2.0E-03	AW064385.1	EST_HUMAN	EST376458 MAGE resequencing, MAGI1 Homo sapiens cDNA
5544	18741	31775	0.7	2.0E-03	4758163	NT	Homo sapiens desatase, autosomal dominant 5 (DFNA5), mRNA
5660	18854		0.94	2.0E-03	BF351459.1	EST_HUMAN	QV3-HT0513-290300-128-h04 HT0513 Homo sapiens cDNA
5754	18946	32248	1.08	2.0E-03	11430039	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
5768	18960	32261	0.76	2.0E-03	U74313.1	EST_HUMAN	HSU74313 Human chromosome 14 Homo sapiens cDNA clone 1-88
6822	18975		1.2	2.0E-03	AW502002.1	EST_HUMAN	U1-HF-BN0-aks-g-09-UJ1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078328 5'
11333	24396	38044	1.39	2.0E-03	AV721848.1	EST_HUMAN	AV721848 HTB Homo sapiens cDNA clone HTBAUB04 5'
11333	24396	38045	1.39	2.0E-03	AV721848.1	EST_HUMAN	AV721848 HTB Homo sapiens cDNA clone HTBAUB04 5'
12625	25358		1.78	2.0E-03	AA126735.1	EST_HUMAN	z28c10.s1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:503346 3'
12624	25420		3.26	2.0E-03	L41825.1	NT	Homo sapiens CYP17 gene, 5' end
12930	25613		5.34	2.0E-03	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862088 5'
105	13341	26368	1.38	1.0E-03	AF238897.1	NT	Homo sapiens CTR1 pseudogene
105	13341	26369	1.38	1.0E-03	AF238897.1	NT	Homo sapiens CTR1 pseudogene
591	13724	26750	7.76	1.0E-03	7657016	NT	Homo sapiens hypothetical protein (DJ328E19.G1.1), mRNA
613	13802	26822	3.32	1.0E-03	A148765.1	EST_HUMAN	cy64b08.x1 NC1 CGAP_CELL1 Homo sapiens cDNA clone IMAGE:1872503 3' similar to TR-Q82384 Q82384
895	14071	27136	3.43	1.0E-03	D87676.1	NT	ZINC FINGER PROTEIN.;
1194	14359	27414	0.8	1.0E-03	4503872	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
1265	14422	27487	7.22	1.0E-03	8923270	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD67, mRNA
1265	14422	27488	7.22	1.0E-03	8923270	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
1376	14531	27604	9.7	1.0E-03	AF167706.1	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
2414	15544	28672	1.08	1.0E-03	AF231981.1	NT	Homo sapiens cysteine-rich repeat-containing protein S62 precursor, mRNA, complete cds
2534	15659	28783	3.06	1.0E-03	AF055066.1	NT	Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds
2576	15702		1.29	1.0E-03	AL137200.1	NT	Homo sapiens MHC class 1 region
2883	14480	27546	1.32	1.0E-03	BE297369.1	EST_HUMAN	Novel human gene mapping to chromosome 1
2883	14480	27547	1.32	1.0E-03	BE297369.1	EST_HUMAN	601117586F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532965 5'
							601117586F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532965 5'

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3000	16176	29197	5.86	1.0E-03	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
3287	16461		1.23	1.0E-03	AF231981.1	NT	Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds
4549	17687	30668	3.26	1.0E-03	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C0084
5348	18461	31428	0.92	1.0E-03	AF123498.1	NT	Homo sapiens estrogen receptor alpha (ESR1) gene, exon 6
5348	18461	31427	0.92	1.0E-03	AF123498.1	NT	Homo sapiens estrogen receptor alpha (ESR1) gene, exon 8
5684	18878	32167	2.39	1.0E-03	U78509.1	NT	Homo sapiens glucocorticoid receptor (GRL) gene, intron D, exon 5, and intron E
5684	18878	32168	2.39	1.0E-03	U78509.1	NT	Homo sapiens glucocorticoid receptor (GRL) gene, intron D, exon 5, and intron E
5885	19074	32383	1.2	1.0E-03	AF227138.1	NT	Homo sapiens candidate taste receptor T2R14 gene, complete cds
6037	19220	32543	10.78	1.0E-03	4557782	NT	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1) mRNA
6326	19488	32855	4.8	1.0E-03	7682241	NT	Homo sapiens KIAA0672 gene product (KIAA0672), mRNA
6931	20246	33679	1.94	1.0E-03	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7400	20478	33946	3.24	1.0E-03	D42072.1	NT	Human mRNA for NF1 N-isoform-exon11, complete cds
8455	21536	35068	2.29	1.0E-03	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
8740	21819	35353	1.15	1.0E-03	Y10183.1	NT	H. sapiens mRNA for MEMD protein
8850	21929	35468	1.14	1.0E-03	AF182032.1	NT	Homo sapiens protein kinase inhibitor gamma (PKIG) mRNA, complete cds
9651	21094	34608	2.03	1.0E-03	AB040918.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9651	21094	34612	1.14	1.0E-03	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9787	22827	36403	3.9	1.0E-03	X13474.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9787	22827	36404	3.9	1.0E-03	X13474.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9926	22966	36555	1.24	1.0E-03	AL048801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
10340	23384	36904	0.59	1.0E-03	AJ230126.1	NT	Homo sapiens ryanodine receptor 3 (RYR3), mRNA
12820	25547		1.82	1.0E-03	AJ230126.1	NT	Homo sapiens GGT1 gene, exon 1
12823	25608		3.71	1.0E-03	11417866	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
13108	25723	31941	1.36	1.0E-03	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
13123	26173		1.42	1.0E-03	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
10819	23852		1.13	8.0E-04	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
4070	17226	30233	1.94	6.0E-04	AF142482.1	NT	Homo sapiens transcription enhancer factor-5 mRNA, complete cds
5483	18682	31698	3.51	5.0E-04	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5483	18682	31699	3.51	5.0E-04	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
6173	18349	32695	2.24	5.0E-04	AA722434.1	EST_HUMAN	2987.g06.e1 Soares_fetal_heart_NH-H19W Homo sapiens cDNA clone IMAGE:409604 3'
7150	20285	33726	1.45	5.0E-04	AI015800.1	EST_HUMAN	cd33cd05.s1 Soares_fetal_heart_Nb21F8_9w Homo sapiens cDNA clone IMAGE:1623369 3'

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8840	21919	35457	0.85	5.0E-04	BF529115.1	EST_HUMAN	602042163F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4180023 5'
11215	24284	37822	1.43	5.0E-04	11423962	NT	Homo sapiens adenylate kinase 2 (AK2), mRNA
11215	24284	37823	1.43	5.0E-04	11423962	NT	Homo sapiens adenylate kinase 2 (AK2), mRNA
12503	26177	31556	3.0	5.0E-04	T89398.1	EST_HUMAN	Yd98504.s1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:116239 3'
1890	16024		15.49	4.0E-04	L05094.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
2723	15841	28952	0.89	4.0E-04	4506008	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
3762	16923	29925	1.12	4.0E-04	AW197851.1	EST_HUMAN	nr89f12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2701679 3'
3762	16923	29926	1.12	4.0E-04	AW197851.1	EST_HUMAN	nr89f12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2701679 3'
4840	17973	30963	3.06	4.0E-04	AE91312.1	EST_HUMAN	tw11f10.x1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2259403 3' similar to TR:Q16266 Q16266 PROTEIN TYROSINE PHOSPHATASE ;
6597	19757	33144	1.48	4.0E-04	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
6597	19757	33145	1.48	4.0E-04	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
7052	20106		0.9	4.0E-04	L27386.1	NT	Homo sapiens huntingtin (HD) gene, exon 37
626	13811	26833	1.76	3.0E-04	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
739	13921	26961	1.13	3.0E-04	4502508	NT	Homo sapiens complement component 5 (C5) mRNA
1779	14926	28021	12.9	3.0E-04	AF167708.1	NT	Homo sapiens cysteine-rich repeat-containing protein S62 precursor, mRNA, complete cds
1779	14926	28022	12.0	3.0E-04	AF167708.1	NT	Homo sapiens cysteine-rich repeat-containing protein S62 precursor, mRNA, complete cds
1813	14992	28055	3.18	3.0E-04	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
4306	17449	30435	0.67	3.0E-04	AA484905.1	EST_HUMAN	zw63g08.l1 Soares_fetal_tetus_Nb2f1f8_9w Homo sapiens cDNA clone IMAGE:774782 5'
4437	17577	30557	0.72	3.0E-04	AA781838.1	EST_HUMAN	ae59h08.s1 Soares_testis_NFT Homo sapiens cDNA clone 1375163 3'
5798	18988	32292	3.21	3.0E-04	11496288	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
6279	19453	32801	1.13	3.0E-04	AB011636.1	NT	Homo sapiens mRNA for MEGF2, partial cds
6581	19743	33125	3.84	3.0E-04	11526228	NT	Homo sapiens chromosome 21 open reading frame 18 (C21ORF18), mRNA
7978	21027	34541	0.83	3.0E-04	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
8363	21474	35001	0.96	3.0E-04	AF152308.1	NT	Homo sapiens proteodherin alpha 13 (PCDH-alpha13) mRNA, complete cds
8787	21666	35408	4.41	3.0E-04	AB014579.1	NT	Homo sapiens mRNA for KIAA0679 protein, partial cds
9791	22831	36410	7.29	3.0E-04	AF087842.1	NT	Homo sapiens glycogenin-1L mRNA, complete cds
11362	24423	38079	1.94	3.0E-04	U26711.1	NT	Homo sapiens axonal transport of synaptic vesicles (ATSV) mRNA
11976	24980	38662	2.11	3.0E-04	U26711.1	NT	Human cbl-b truncated form 1 lacking leucine zipper mRNA, complete cds
9854	22993	36587	0.67	2.0E-04	AI910393.1	EST_HUMAN	wf30h11.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:2391813 3'
9854	22993	36588	0.67	2.0E-04	AI910393.1	EST_HUMAN	wf30h11.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:2391813 3'
153	13378	26410	3.07	1.0E-04	BE26714.1	EST_HUMAN	801175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3158	16333	29342	2.05	1.0E-04	BE263433.1	EST_HUMAN	601111686F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352559 5'
3158	16333	29343	2.05	1.0E-04	BE263433.1	EST_HUMAN	601111686F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352559 5'
4478	17818	30800	1.11	1.0E-04	9506692	NT	Homo sapiens hypothetical protein (FLJ20746), mRNA
6108	16373	32724	0.69	1.0E-04	AE000260.1	NT	Escherichia coli K-12 MG1655 section 159 of 400 of the complete genome
6398	18565	32925	1.91	1.0E-04	AL040518.1	EST_HUMAN	DKFZp434C0314_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C0314 5'
6405	18574	32936	0.82	1.0E-04	H08270.1	EST_HUMAN	Y87702.1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:45053 5'
6648	19807	33194	0.68	1.0E-04	AV725932.1	EST_HUMAN	AV725932 HTC Homo sapiens cDNA clone H7C8EF05 5'
8304	21386	34908	0.8	1.0E-04	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
8304	21386	34909	0.8	1.0E-04	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
9456	22572	36138	2.17	1.0E-04	11428710	NT	Homo sapiens paired box gene 5 (B-cell lineage specific activator protein) (PAX5), mRNA
9990	23029	36820	1.35	1.0E-04	BE780478.1	EST_HUMAN	601468748F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872059 5'
11321	24384	38078	3.11	1.0E-04	U65560.1	NT	Homo sapiens IL-1 receptor antagonist IL-1Ra (IL-1RN) gene, alternatively spliced forms, complete cds
11597	24650	38334	1.88	1.0E-04	AI272244.1	EST_HUMAN	ap22e02.x1 Schiller oligodendrogloma Homo sapiens cDNA clone IMAGE:1056122 3' similar to TR:Q62845
12051	25032	38738	1.34	1.0E-04	11418871	NT	Q62845 NEURAL CELL ADHESION PROTEIN BIG-2 PRECURSOR ;
12639	13378	28410	2.02	1.0E-04	BE295714.1	EST_HUMAN	Homo sapiens KIAA0164 gene product (KIAA0164), mRNA
12668	13378	28410	1.73	1.0E-04	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
1506	14659	27741	6.05	9.0E-05	AF027302.1	NT	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3224	16398	29409	1.09	9.0E-05	7692027	NT	Homo sapiens TNF-alpha stimulated ABC protein (ABC50) mRNA, complete cds
3224	16398	29410	1.09	9.0E-05	7692027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
5521	18718	31733	1.46	9.0E-05	X82569.1	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
5521	18718	31734	1.46	9.0E-05	X82569.1	NT	M.musculus glyt1 gene (exons 1c and 2)
8446	21527	35054	1.58	9.0E-05	AF274793.1	NT	M.musculus glyt1 gene (exons 1c and 2)
149	13374	26407	2.9	8.0E-05	AF154830.1	NT	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
4658	17794	30779	1.68	8.0E-05	AJ700998.1	EST_HUMAN	Homo sapiens carbamyl phosphate synthetase I mRNA, complete cds
4658	17794	30780	1.68	8.0E-05	AJ700998.1	EST_HUMAN	we09e04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340806 3' similar to gb:K00558
7087	20181	33605	0.73	8.0E-05	11418378	NT	TUBULIN ALPHA-1 CHAIN (HUMAN);
7300	20468	33934	1.4	8.0E-05	11426529	NT	we09e04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340806 3' similar to gb:K00558
7390	20468	33935	1.4	8.0E-05	11426529	NT	TUBULIN ALPHA-1 CHAIN (HUMAN);
8391	21472	34988	2.08	8.0E-05	AF032897.1	NT	Homo sapiens KIAA0183 gene product (KIAA0183), mRNA
9565	22707	36273	1.98	8.0E-05	11420944	NT	Homo sapiens profilin (profilin) 26S subunit, non-ATPase, 11 (PSMD11), mRNA
							Homo sapiens profilin (profilin) 26S subunit, non-ATPase, 11 (PSMD11), mRNA
							Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
							Homo sapiens KIAA0255 gene product (KIAA0255), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9565	22707	36274	1.98	8.0E-95	11420944	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
10053	23091	36693	2.45	8.0E-95	5174844	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH), mRNA
10083	23121		2.92	8.0E-95	AB037816.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
10440	23473	37078	0.81	8.0E-95	9845523	NT	Homo sapiens early growth response 2 (Krox-20 (Drosophila) homolog) (EGR2), mRNA
10853	24035	37670	1.59	8.0E-95	AF112152.1	NT	Homo sapiens developmental arteries and neural crest EGF-like protein mRNA, complete cds
11773	24765	38461	1.72	8.0E-95	10894024	NT	Homo sapiens HCF-binding transcription factor Zhangfei (ZF), mRNA
11982	24967	38669	1.32	8.0E-95	7019572	NT	Homo sapiens zincfin (ZIN), mRNA
11982	24967	38670	1.32	8.0E-95	7019572	NT	Homo sapiens zincfin (ZIN), mRNA
12887	25588		17.21	8.0E-95	AA629056.1	EST_HUMAN	zu84601.s1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:744849 3' similar to contains L1.H L1 repetitive element;
286	13504	26537	6.07	7.0E-95	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
286	13504	26538	6.07	7.0E-95	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
2519	15645	28767	1.37	7.0E-95	M75973.1	NT	Human hepatocyte growth factor gene, exon 8
2519	15645	28768	1.37	7.0E-95	M75973.1	NT	Human hepatocyte growth factor gene, exon 8
4486	17628	30608	15.92	7.0E-95	M95708.1	NT	Homo sapiens Ly-8-like protein (CD58) mRNA, complete cds
4535	17673		1.09	7.0E-95	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9418	22492	36058	0.62	4.0E-95	BE439625.1	EST_HUMAN	HTM1-288F HTM1 Homo sapiens cDNA
215	13438	28498	0.82	3.0E-95	AV848381.1	EST_HUMAN	AV848381 GLC Homo sapiens cDNA clone GLC81F01 3'
5558	18756	31794	1.52	3.0E-95	BF526041.1	EST_HUMAN	602071146F1 NCI_CGAP_Bn64 Homo sapiens cDNA clone IMAGE:4214147 5'
5761	25811	32285	0.94	3.0E-95	4503384	NT	Homo sapiens dedicator of cyto-kinesis 1 (DOCK1) mRNA
7315	20397	33659	0.73	3.0E-95	AA412321.1	EST_HUMAN	Z97d01.J1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:730273 5'
7315	20397	33660	0.73	3.0E-95	AA412321.1	EST_HUMAN	Z97d01.J1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:730273 5'
7525	20598	34071	2.01	3.0E-95	AW958121.1	EST_HUMAN	EST370191 MAGI resequences, MAGI Homo sapiens cDNA
7525	20598	34072	2.01	3.0E-95	AW958121.1	EST_HUMAN	EST370191 MAGI resequences, MAGI Homo sapiens cDNA
9555	22620	36180	1.62	3.0E-95	7662288	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
9555	22620	36191	1.62	3.0E-95	7662288	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
9949	22987	36581	0.86	3.0E-95	BF213446.1	EST_HUMAN	601845212F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4070451 5'
1676	14828	27811	3.52	2.0E-95	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
1676	14828	27812	3.52	2.0E-95	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
1985	15136	28242	73.27	2.0E-95	4507512	NT	Homo sapiens tissue inhibitor of metalloproteinase 3 (Sarsby fundus dystrophy, pseudoinflammatory) (TIMP3), mRNA
1988	15139	28246	3.97	2.0E-95	BE393873.1	EST_HUMAN	601312161F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658862 5'
2497	15624	28743	1.5	2.0E-95	5453685	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA
2497	15624	28744	1.5	2.0E-95	5453685	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2636	15681	28784	3.62	2.0E-05	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2682	15707	28828	1.34	2.0E-05	4758423	NT	Homo sapiens glycine cleavage system protein H (aminomethyl carrier) (GCSH) mRNA
2682	15784		0.99	2.0E-05	R18245.1	EST_HUMAN	ye48d08.s1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:53393 3'
3228	16400	29412	2.1	2.0E-05	AF015452.1	NT	Homo sapiens Uslurin-gamma mRNA, complete cds
3655	16818	29829	3.6	2.0E-05	7705900	NT	Homo sapiens unconventional myosin-15 (LOC51188), mRNA
3655	16818	29830	3.6	2.0E-05	7705900	NT	Homo sapiens unconventional myosin-15 (LOC51188), mRNA
3708	16867	29870	0.81	2.0E-05	AB037807.1	NT	Homo sapiens mRNA for KIAA1386 protein, partial cds
3844	17004	30008	0.62	2.0E-05	AI290264.1	EST_HUMAN	qnd01c02.x1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1880548 3' similar to WP:T23G7.4 CE03705;
4481	17821	30602	1.38	2.0E-05	7657185	NT	Homo sapiens hypothetical protein (HS322B1A), mRNA
5151	18273	31242	3.5	2.0E-05	7861978	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
5230	18552	31321	0.99	2.0E-05	AF108807.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
5587	18782	31840	4.12	2.0E-05	7705764	NT	Homo sapiens CGI-48 protein (LOC51098), mRNA
5597	18782	31841	4.12	2.0E-05	7705764	NT	Homo sapiens CGI-48 protein (LOC51098), mRNA
5815	19005	32310	1.24	2.0E-05	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5815	19005	32311	1.24	2.0E-05	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5855	19045	32352	0.63	2.0E-05	11525883	NT	Homo sapiens membrane protein, palmitoylated 3 (MAGUK p59 subfamily member 3) (MPP3), mRNA
6270	19444	32793	3.86	2.0E-05	IM59724.1	NT	Human muscle-type phosphofructokinase (PFK-M) gene, exon 7
6579	19741	33122	0.9	2.0E-05	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA
6579	19741	33123	0.9	2.0E-05	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA
6700	19858	33248	3.25	2.0E-05	AF251737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6903	20218	33647	1.47	2.0E-05	11435773	NT	Homo sapiens huntingtin (Huntington disease) (HD), mRNA
8343	22419	35979	1.48	2.0E-05	11421785	NT	Homo sapiens ribophorin II (RPN2), mRNA
10592	23627	37236	0.56	2.0E-05	11434330	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
10982	24043	37678	1.88	2.0E-05	4757853	NT	Homo sapiens bone morphogenetic protein receptor, type IA (BMPRI1A) mRNA
11138	24210	37836	1.35	2.0E-05	7661993	NT	Homo sapiens Sta20-related serine/threonine kinase (KIAA0204), mRNA
12002	24987	38681	1.89	2.0E-05	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
12002	24987	38682	1.89	2.0E-05	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
12103	25083		1.57	2.0E-05	AF161420.1	NT	Homo sapiens HSPC302 mRNA, partial cds
12608	25407	32047	2.31	2.0E-05	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor	
12721	25480			1.3	11417860	NT	Homo sapiens hypothetical protein (HS322B1A), mRNA	
13067	25638	31968		7.4	11418164	NT	Homo sapiens adenylosuccinate lyase (ADSL), mRNA	
6732	18925	32219		8.06	1.0E-95	AA284651.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
6732	18925	32220		8.06	1.0E-95	AA284651.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
7683	20748	34229		4.11	1.0E-95	BF370000.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
7683	20748	34230		4.11	1.0E-95	BF370000.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
7683	20748	34230		0.45	1.0E-95	R17806.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
9683	21625	36197		1.56	9.0E-96	BE897259.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
8368	21469	34986		0.88	8.0E-96	BE907607.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
455	18012	26687		0.88	8.0E-96	BE907607.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
455	18012	26688		2.8	8.0E-96	AW636047.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
5628	18822	30183		1.25	7.0E-96	AF231920.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
4018	17175	26600		2.48	6.0E-96	BE171984.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
2334	16485	26600		0.71	6.0E-96	AL163201.2	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
3394	16564	29578		10.25	6.0E-96	M26873.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
3571	16736	29751		2.41	6.0E-96	M26873.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
11830	24828	38517		2.41	6.0E-96	M26873.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
11839	24828	38518		1.94	6.0E-96	M26873.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
11891	24879	38578		1.32	6.0E-96	M26873.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
12064	25045	38753		1.32	6.0E-96	M26873.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
12064	25045	38754		3.55	5.0E-96	AB032898.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
330	13644	26574		3.4	5.0E-96	AB032898.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
866	14041	27104		3.4	5.0E-96	AB032898.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
866	14041	27105		1.72	5.0E-96	11416767	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
2694	16804	29284		0.71	5.0E-96	6912735	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
3092	16268	29284		1.69	5.0E-96	X60812.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
5024	18153	31381		0.79	5.0E-96	AF264750.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
5296	18414	33341		1.1	5.0E-96	AF149779.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
6788	19943	33341		0.58	5.0E-96	AJ277557.1	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
6851	20004	33413		3.68	5.0E-96	11424399	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
6921	20236	33669		3.68	5.0E-96	11424399	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	
6921	20236	33670		3.68	5.0E-96	11424399	Homo sapiens ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7163	20298	33740	0.91	5.0E-06	AB023177.1	NT	Homo sapiens mRNA for KIAA0960 protein, partial cds
7694	20749	34231	0.76	5.0E-06	AB024334.1	NT	Homo sapiens mRNA for 14-3-3gamma, complete cds
8297	21379	34900	1.87	5.0E-06	M68347.1	NT	Human type IV collagenase (CLG4B) gene, exon 5
8297	21379	34901	1.87	5.0E-06	M68347.1	NT	Human type IV collagenase (CLG4B) gene, exon 6
12083	25083	38769	1.33	5.0E-06	7661873	NT	Homo sapiens KIAA0175 gene product (KIAA0175), mRNA
4308	17451		15.95	3.0E-06	H68656.1	EST_HUMAN	yr87h12.1 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:212327 5'
428	13623		6.76	2.0E-06	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
768	13947	26894	1.1	2.0E-06	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
1834	14881	28079	1.03	2.0E-06	7706205	NT	Homo sapiens CGI-201 protein (LOC51340), mRNA
4880	18011	30895	1.56	2.0E-06	BE148074.1	EST_HUMAN	RCS-HT0230-040500-110-g02 HT0230 Homo sapiens cDNA
7620	20690	34165	0.59	2.0E-06	BF369731.1	EST_HUMAN	QV4-GN0120-250900-427-b12 GN0120 Homo sapiens cDNA
7620	20690	34166	0.59	2.0E-06	BF369731.1	EST_HUMAN	QV4-GN0120-250900-427-b12 GN0120 Homo sapiens cDNA
9181	22259		4.9	2.0E-06	AV689461.1	EST_HUMAN	AV689461 GK-C Homo sapiens cDNA clone GKCFMD07 5'
12288	26214		2.54	2.0E-06	AW240440.1	EST_HUMAN	2819351.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819351 5'
638	13823	28845	0.98	1.0E-06	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
638	13823	28846	0.98	1.0E-06	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
688	13872	28905	3.08	1.0E-06	Y18880.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
1822	14971	28063	9.97	1.0E-06	AW955054.1	EST_HUMAN	EST367124 MAGC resequences, MAGC Homo sapiens cDNA
1822	14971	28064	9.97	1.0E-06	AW955054.1	EST_HUMAN	EST367124 MAGC resequences, MAGC Homo sapiens cDNA
6331	18444		1.59	1.0E-06	5453913	NT	Homo sapiens phospholipid transfer protein (PLTP) mRNA
7105	18532	31487	1.19	1.0E-06	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
7194	20059	33470	0.71	1.0E-06	6912455	NT	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA
8407	21488	35017	0.9	1.0E-06	7661803	NT	Homo sapiens HSPC144 protein (HSPC144), mRNA
8407	21488	35018	0.9	1.0E-06	7661803	NT	Homo sapiens HSPC144 protein (HSPC144), mRNA
8913	21992	35531	21.44	1.0E-06	11419426	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC883214), mRNA
9051	22130	35674	2.22	1.0E-06	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
10362	23397	37007	0.88	1.0E-06	AB033116.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
10362	23397	37008	0.88	1.0E-06	AB033116.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
12274	13823	28846	3.28	1.0E-06	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
12274	13823	28846	3.28	1.0E-06	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
3405	16575	28590	0.72	6.0E-07	BF245240.1	EST_HUMAN	601983712F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4081202 5'
7730	20792		3.4	6.0E-07	BE141849.1	EST_HUMAN	IL5-HT0117-011099-004-D07 HT0117 Homo sapiens cDNA

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Table 4

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9134	22213	35757	0.75	6.0E-07	BE898012.1	EST_HUMAN	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3926133 5'
9134	22213	35758	0.75	6.0E-07	BE898012.1	EST_HUMAN	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3926133 5'
10821	23854	37475	0.66	6.0E-07	AA320332.1	EST_HUMAN	EST22672 Adipose tissue, white II Homo sapiens cDNA 5' end
10821	23854	37476	0.65	6.0E-07	AA320332.1	EST_HUMAN	EST22672 Adipose tissue, white II Homo sapiens cDNA 5' end
11692	24690	36361	2.42	6.0E-07	X15804.1	NT	Human mRNA for alpha-actinin
8204	21286	34809	1.73	6.0E-07	AL043314.2	EST_HUMAN	DKFZp434N0323_1 424 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434N0323 5'
8336	21417	34943	11.21	6.0E-07	AA418026.1	EST_HUMAN	G1304125 PMS4 MRNA;
9877	22617	36502	3.12	6.0E-07	BF164912.1	EST_HUMAN	RCO-B1T0812-250900-032-e08 BT0812 Homo sapiens cDNA
11840	24829	38519	1.68	6.0E-07	BE148597.1	EST_HUMAN	MRO-HT0241-150500-010-b02 HT0241 Homo sapiens cDNA
11840	24829	38520	1.68	6.0E-07	BE148597.1	EST_HUMAN	MRO-HT0241-150500-010-b02 HT0241 Homo sapiens cDNA
962	14135	27198	2.13	4.0E-07	BE004436.1	EST_HUMAN	CMO-BN0106-170300-293-e08 BN0106 Homo sapiens cDNA
1959	15102	28202	1.41	4.0E-07	5463672	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
5693	18977	32166	0.92	4.0E-07	4557326	NT	Homo sapiens apolipoprotein H (beta-2-glycoprotein I) (APOH) mRNA
6962	20190	33615	6.47	4.0E-07	Y11339.2	NT	Homo sapiens mRNA for GalNAc alpha-2, 6-sialyltransferase I, long form
6962	20190	33616	6.47	4.0E-07	Y11339.2	NT	Homo sapiens mRNA for GalNAc alpha-2, 6-sialyltransferase I, long form
7161	20294	33737	1.09	4.0E-07	7710125	NT	Homo sapiens ligase III, DNA, ATP-dependent (LIC3), transcript variant alpha, mRNA
7214	20079	33492	0.92	4.0E-07	11422155	NT	Homo sapiens cytochrome P450, subfamily 1B, polypeptide 1 (CYP4B1), mRNA
8329	21411	34937	1.08	4.0E-07	4557709	NT	Homo sapiens cys6 fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTCR), mRNA
8553	21634	35171	1.43	4.0E-07	11421793	NT	Homo sapiens laminin, alpha 2 (merosin, congenital muscular dystrophy) (LAMA2) mRNA
8779	21858	35401	0.51	4.0E-07	11431060	NT	Homo sapiens v-src avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (SRC), mRNA
8820	21899	35438	0.82	4.0E-07	11423233	NT	Homo sapiens N-myc (and STAT) interactor (NMI), mRNA
9449	22565	36128	1.06	4.0E-07	AB011166.1	NT	Homo sapiens cytochrome P450, subfamily 1B, polypeptide 1 (CYP4B1), mRNA
9449	22565	36129	1.06	4.0E-07	AB011166.1	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
10652	23686	37296	0.55	4.0E-07	11431060	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
11435	24498	38162	1.99	4.0E-07	11863122	NT	Homo sapiens N-myc (and STAT) interactor (NMI), mRNA
11435	24498	38163	1.99	4.0E-07	11863122	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
11719	23606	37528	4.51	4.0E-07	AB042567.1	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
12472	25325	26504	5.28	4.0E-07	11418318	NT	Homo sapiens mRNA, similar to rat myomegalin, complete cds
233	13473	26504	1.58	3.0E-07	AB032398.1	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
897	14073	27138	7.16	3.0E-07	4502166	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
							Homo sapiens amyloid beta (A4) precursor protein (protease resistant, Alzheimer disease) (APP), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
887	14073	27139	7.16	3.0E-07	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nadin-II, Alzheimer disease) (APP), mRNA
1473	16039	27712	1.94	3.0E-07	4758813	NT	Homo sapiens N-myc (and STAT) interactor (NMI), mRNA
2508	15998	28755	2.4	3.0E-07	U36255.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 7
3333	16506	28823	0.96	3.0E-07	5174478	NT	Homo sapiens perlecanin (PCNT) mRNA
4902	18032	31021	22.23	1.0E-07	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
6557	19719	33095	2.72	1.0E-07	BE568486.1	EST_HUMAN	601339520F1 NIH_MGC 53 Homo sapiens cDNA clone IMAGE:3681821 5'
7039	20092	33509	0.69	1.0E-07	6453881	NT	Homo sapiens phosphorylase kinase, gamma 1 (muscle) (PHKG1) mRNA
9866	23005	36500	1.02	1.0E-07	R10887.1	EST_HUMAN	y38c08.a1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:129134 3'
10945	24027	37683	2.84	1.0E-07	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
10949	24027	37684	2.84	1.0E-07	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
11589	24642	38324	1.38	1.0E-07	AA553761.1	EST_HUMAN	nk2g02.s1 NC1_CGAP_Co11 Homo sapiens cDNA clone IMAGE:1014962 3'
11766	23942	37668	8.3	1.0E-07	11426272	NT	Homo sapiens ribosomal protein S15 (RPS15), mRNA
11766	23942	37669	8.3	1.0E-07	11426272	NT	Homo sapiens ribosomal protein S15 (RPS15), mRNA
824	14088	27163	2.34	9.0E-08	BE080973.1	EST_HUMAN	PM4-BT0724-010400-008-a12 BT0724 Homo sapiens cDNA
1305	14461	27528	1.32	9.0E-08	8393082	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
8432	19800		0.79	9.0E-08	AJ250713.1	NT	Homo sapiens CLDN12 gene for claudin-12
8020	21072	34583	4.13	9.0E-08	AB046858.1	NT	Homo sapiens mRNA for KIAA1636 protein, partial cds
8020	21072	34584	4.13	9.0E-08	AB046856.1	NT	Homo sapiens mRNA for KIAA1636 protein, partial cds
8109	21191	34711	5.62	9.0E-08	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
8109	21191	34712	5.62	9.0E-08	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
9316	22392	35943	1.78	9.0E-08	X05998.1	NT	Human mRNA for amyloid A4(751) protein
9425	22489	36064	1.12	9.0E-08	11921680	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
9492	22649	39112	1.6	9.0E-08	AB037786.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
9540	22805		0.81	9.0E-08	AF057728.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exon 8
9567	22708	36278	1.28	9.0E-08	4507070	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependant regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
9567	22708	36277	1.28	9.0E-08	4507070	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependant regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
10467	23502	37115	0.67	9.0E-08	AF141925.2	NT	Homo sapiens inositol polyphosphate 1-phosphatase (INPP1) gene, complete cds
10575	23610	37215	0.5	9.0E-08	11431544	NT	Homo sapiens proteinase-activated receptor 3 (PAR3), mRNA
11253	24322	37982	2.62	9.0E-08	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11263	24322	37983	2.62	9.0E-08	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
12487	14086	27163	4.97	9.0E-08	BE080973.1	EST_HUMAN	PM4-BT0724-010400-008-a12 BT0724 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1403	14557	27631	0.93	8.0E-08	AB033708.1	NT	Homo sapiens hPAD-cbony10 mRNA for peptidylarginine deaminase type I, complete cds
1591	14743	27825	1.1	8.0E-08	5031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
1591	14743	27828	1.1	8.0E-08	5031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
1765	14914	28008	2.79	8.0E-08	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
1765	14914	28010	2.79	8.0E-08	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
3896	17055	30055	6.45	8.0E-08	J04469.1	NT	Human mitochondrial creatine kinase (CKMT) gene, complete cds
6207	19382	32732	0.96	6.0E-08	BE886873.1	EST_HUMAN	601607503F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3908097 5'
2247	19380	28508	1.35	3.0E-08	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone l8
2673	15783	28910	2.1	3.0E-08	AB014807.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
2807	15921		5.04	3.0E-08	AA077498.1	EST_HUMAN	7B18101 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18101
7085	20179	33602	1.99	3.0E-08	11418210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
7085	20179	33603	1.99	3.0E-08	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
8951	22030	35571	4.07	3.0E-08	H46698.1	EST_HUMAN	yo17g09.r1 Scores adult brain N2b51B55V Homo sapiens cDNA clone IMAGE:178240 5'
9497	22553	36116	0.54	3.0E-08	8922036	NT	Homo sapiens uncharacterized bone marrow protein BM039 (BM039), mRNA
10087	23125	36726	1.82	3.0E-08	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone l8
10087	23125	36727	1.82	3.0E-08	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone l8
10691	23724	37330	0.89	3.0E-08	BE900454.1	EST_HUMAN	601673686F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3956517 5'
11195	24284	37899	2.58	3.0E-08	U69308.1	NT	Human fumarate precursor (FH) mRNA, nuclear gene encoding mitochondrial protein, complete cds
11819	24808	38504	2.22	3.0E-08	AI159976.1	EST_HUMAN	qb80h02.x1 Scores_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:1708451 3'
13138	25739		3.01	3.0E-08	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
754	13935	26980	0.67	2.0E-08	BE201694.1	EST_HUMAN	601149486F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502245 5'
2141	15277	28309	4.06	2.0E-08	BE294281.1	EST_HUMAN	601172658F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528134 5'
2311	15443	28578	2.21	2.0E-08	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
4411	17553	30538	0.82	2.0E-08	AF032897.1	NT	Homo sapiens potassium channel subunit (HIERG-3) mRNA, complete cds
4459	17598	30577	4.23	2.0E-08	4758331	NT	Homo sapiens fatty-acid-Coenzyme A ligase, long-chain 4 (FACL4) mRNA
4948	18078	31052	1.39	2.0E-08	AF218902.1	NT	Homo sapiens attractin precursor (ATRN) gene, exon 16
4948	18078	31053	1.39	2.0E-08	AF218902.1	NT	Homo sapiens attractin precursor (ATRN) gene, exon 16
5492	18891	31708	4.76	2.0E-08	7706512	NT	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
6763	19648	33347	1.7	2.0E-08	4605798	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
7601	20857	34348	1.25	2.0E-08	11431271	NT	Homo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA
7807	20857	34349	1.25	2.0E-08	11431271	NT	Homo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA
8807	21886	35426	4.44	2.0E-08	11428813	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
8807	21886	35427	4.44	2.0E-08	11428813	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA

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Table 4

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8889	21988	35503	0.8	2.0E-08	L76668.1	NT	Homo sapiens NKAT4b mRNA, complete cds
8889	21988	35504	0.8	2.0E-08	L76668.1	NT	Homo sapiens NKAT4b mRNA, complete cds
9737	22802	36376	1.56	2.0E-08	X12684.1	NT	H. sapiens arginase gene exon 3 (EC 3.5.3.1)
10624	23658		1.66	2.0E-08	7705888	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
12136	25116		1.61	2.0E-08	AB046813.1	NT	Homo sapiens mRNA for KIAA1593 protein, partial cds
12492	25340	32062	2.23	2.0E-08	11435947	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
418	13613	26653	27.52	1.0E-08	AJ862007.1	EST_HUMAN	hw36804.x1 NC1_CGAP_LH1 Homo sapiens cDNA clone IMAGE:2261743 3' similar to SW:RL28_HUMAN
467	13662	26668	3.27	1.0E-08	AW698611.1	EST_HUMAN	P29316 60S RIBOSOMAL PROTEIN L23A.;
1840	14986	28086	26.16	1.0E-08	N49818.1	EST_HUMAN	PMO-BN0065-100300-001-008 BN0065 Homo sapiens cDNA
5432	18632	31810	3.3	1.0E-08	AA195854.1	EST_HUMAN	Y2305.11 Soares fetal liver spleen 1NFSL Homo sapiens cDNA clone IMAGE:243585 5' similar to
5687	18881	32172	0.97	1.0E-08	BE390627.1	EST_HUMAN	PIR:S54204 S54204 ribosomal protein L29 - human;
5687	18881	32173	0.97	1.0E-08	BE390627.1	EST_HUMAN	z988c08.J1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:628240 5' similar to TR:G806562
9199	22277	35815	0.59	1.0E-08	AF141349.1	NT	G806562 NEBULIN.;
9199	22277	35816	0.59	1.0E-08	AF141349.1	NT	601284986F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:3608682 5'
5939	19125	32438	1.05	9.0E-09	AJ905004.1	EST_HUMAN	601284986F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:3608682 5'
5939	19125	32439	1.05	9.0E-09	AJ905004.1	EST_HUMAN	Homo sapiens beta-tubulin mRNA, complete cds
6165	19341	32688	4.01	9.0E-09	AW968636.1	EST_HUMAN	Homo sapiens beta-tubulin mRNA, complete cds
11384	24445	38105	1.85	9.0E-09	AJ479829.1	EST_HUMAN	QV-BT073-191288-012 BT073 Homo sapiens cDNA
11384	24445	38106	1.85	9.0E-09	AJ479829.1	EST_HUMAN	QV-BT073-191288-012 BT073 Homo sapiens cDNA
11700	24697	38389	1.72	9.0E-09	AA134604.1	EST_HUMAN	EST380711 MAGe resequences, MAGJ Homo sapiens cDNA
8924	22003	35542	1.19	8.0E-09	9635487	NT	hm69h07.x1 NC1_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BID_HUMAN
5956	19142	32458	9.25	7.0E-09	AF035808.1	NT	P55957 BH3 INTERACTING DOMAIN DEATH AGONIST;
11809	24698	38569	1.91	7.0E-09	AF001886.1	NT	P55957 BH3 INTERACTING DOMAIN DEATH AGONIST;
484	13678	26713	0.72	8.0E-09	U10991.1	NT	zn90d02.J1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565443 5' similar to
2106	15331	28456	6.2	6.0E-09	11430555	NT	TR:G862894 G862894 GPI-ANCHORED PROTEIN P137.;
2186	15331	28457	6.2	6.0E-09	11430555	NT	Human endogenous retrovirus, complete genome
3895	17152	30160	2.8	6.0E-09	AW976394.1	EST_HUMAN	Homo sapiens oestrogen (hLn) gene, exon 5
4870	18003	30986	1.42	6.0E-09	4502960	NT	Homo sapiens NK-receptor (NIR-G2) gene, linker region exon

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
6732	19888	33280	0.94	6.0E-09	7706138	NT	Homo sapiens GAP-like protein (LOC51306), mRNA
6816	19889	33378	0.74	6.0E-09	L43610.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
6816	19889	33377	0.74	6.0E-09	L43610.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
8236	21378	34899	1.85	6.0E-09	X39101.1	NT	H. sapiens mRNA for estrogen receptor
8314	21396	34921	0.59	6.0E-09	6801589	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
8884	22043	35588	2.87	6.0E-09	AB038429.1	NT	Homo sapiens NID5T4 mRNA for N-deacetylaseN-sulfotransferase 4, complete cds
9064	22143	35688	7.6	6.0E-09	AF080255.1	NT	Homo sapiens lobster protein mRNA, complete cds
9064	22143	35689	7.6	6.0E-09	AF080255.1	NT	Homo sapiens lobster protein mRNA, complete cds
9123	22202	35744	0.59	6.0E-09	11431894	NT	Homo sapiens inositol 1,4,5-trisphosphate receptor, type 1 (ITPR1), mRNA
9123	22202	35745	0.59	6.0E-09	11431894	NT	Homo sapiens inositol 1,4,5-trisphosphate receptor, type 1 (ITPR1), mRNA
10938	24039	37674	3.15	6.0E-09	11526239	NT	Homo sapiens BH3 Interacting domain death agonist (BID), mRNA
11742	23028	37563	2.02	6.0E-09	6910279	NT	Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA
11742	23028	37554	2.02	6.0E-09	6910279	NT	Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA
2022	15163	28268	1	5.0E-09	Y11365.1	NT	H. sapiens IMPA gene, exon 8
4686	17821	30809	1.81	5.0E-09	AF036680.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
12502	25346		2.49	5.0E-09	BE880177.1	EST_HUMAN	601613157F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914391 5'
8516	21597		4.95	3.0E-09	M95596.1	NT	Human E2AF-HLA fusion protein (E2AF-HLF) mRNA, complete cds
1268	14426		7.26	2.0E-09	AW274782.1	EST_HUMAN	XP00806.X1 NCI_CGAP_HN9 Homo sapiens cDNA clone IMAGE:2739874 3' similar to gb:M31212 MYOSIN LIGHT CHAIN ALKALI, NON-MUSCLE ISOFORM (HUMAN);
3331	16504	28522	1.4	2.0E-09	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4685	17800	30787	1.82	2.0E-09	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
7851	20808	34410	0.76	2.0E-09	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
8904	21983	35523	10.79	2.0E-09	W23507.1	EST_HUMAN	zb46406.J1 Soares fetal lung Nhl-19W Homo sapiens cDNA clone IMAGE:306635 5' similar to
9353	22428	35986	0.75	2.0E-09	R78254.1	EST_HUMAN	gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
11367	24428	38085	3.16	2.0E-09	AF247457.2	NT	y81b09.L1 Soares placenta Nib2HP Homo sapiens cDNA clone IMAGE:145625 5'
12081	25051	38797	1.64	2.0E-09	10863960	NT	Homo sapiens myosin X (MYO10) mRNA, complete cds
326	19339	26571	1.49	1.0E-09	AF114487.1	NT	Homo sapiens potassium channel, subfamily K, member 10 (KCNK10), mRNA
380	13596	26692	1.75	1.0E-09	11526150	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
1452	14605	27694	3.61	1.0E-09	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
1587	14739	27819	1.16	1.0E-09	AF192523.1	NT	Homo sapiens truncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds
1587	14739	27820	1.18	1.0E-09	AF192523.1	NT	Homo sapiens truncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds
1980	16123	28224	1.21	1.0E-09	4503730	NT	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1980	15123	28225	1.21	1.0E-09	4903730	NT	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products
3164	16329	29339	0.93	1.0E-09	J03171.1	NT	Human interferon-alpha receptor (HuIFN-alpha-Rec) mRNA, complete cds
4499	17639	30821	2.64	1.0E-09	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
4499	17639	30822	2.64	1.0E-09	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
6943	20256	33684	1.25	1.0E-09	11421007	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
6943	20256	33695	1.25	1.0E-09	11421007	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
7289	26842	33827	0.81	1.0E-09	X98022.1	NT	H. sapiens EG-AP gene exon 2
8400	22474		0.75	1.0E-09	11419721	NT	Homo sapiens ALEX1 protein (LOC51309), mRNA
9720	22785	36356	1.7	1.0E-09	AW340174.1	EST_HUMAN	h02h02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2908371 3' similar to TR-002711
11403	24464	38128	2.56	1.0E-09	7427514	NT	002711 PRO-POL-DUTPASE POLYPROTEIN:
11403	24464	38129	2.56	1.0E-09	7427514	NT	Homo sapiens huntingin interacting protein 1 (HIP1), mRNA
11462	24521	38191	1.69	1.0E-09	5901979	NT	Homo sapiens huntingin interacting protein 1 (HIP1), mRNA
11659	24738	38429	2.83	1.0E-09	AB023222.1	NT	Homo sapiens heat shock transcription factor 2 binding protein (HSF2BP), mRNA
11698	24981	39887	2.45	1.0E-09	11417101	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
12257	25183		4.82	1.0E-09	AF240786.1	NT	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), mRNA
1	13241	26241	1.7	1.0E-100	AL163247.2	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2	13241	26241	2.91	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
70	13307	26329	1.82	1.0E-100	11418230	NT	Homo sapiens chromosome 21 segment HS21C047
70	13307	26330	1.82	1.0E-100	11418230	NT	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
89	13324	26353	0.82	1.0E-100	AW275237.1	EST_HUMAN	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
173	13397	26425	0.89	1.0E-100	AL163206.2	NT	xv78b11.x1 NCI_CGAP_Bim53 Homo sapiens cDNA clone IMAGE:2824605 3'
327	13541	26573	1.84	1.0E-100	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C008
353	13584	26592	1.87	1.0E-100	T05087.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C048
450	13846		2.24	1.0E-100	AF003528.1	NT	EST02975 Fetal brain, Striatum (cat#936206) Homo sapiens cDNA clone HFBICR32
502	13697		5.88	1.0E-100	X89631.1	NT	Homo sapiens X-linked arylidic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
522	13716	26742	1.21	1.0E-100	BE180609.1	EST_HUMAN	G.gorilla DNA for ZNF60 gene homolog
1044	14210	27268	4.57	1.0E-100	7681685	NT	RC3-H10625-040500-022-509 HT0625 Homo sapiens cDNA
1044	14210	27267	4.57	1.0E-100	7681685	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1571	14730		1.3	1.0E-100	AW207655.1	EST_HUMAN	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1681	14733	27814	1.66	1.0E-100	AI200857.1	EST_HUMAN	UH-HB11-efk-c-07-QJLs1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722164 3'
							qf02f09.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1754633 3' similar to SW:CYT_COTJA
							P81061 CYSTATIN:

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2315	15447		1.14	1.0E-100	D83349.1	NT	Flat mRNA for short type PB-cadherin, complete cds
2507	15634	28754	1.41	1.0E-100	X62488.1	NT	H.sapiens mRNA for IFN-gamma (pKC-0)
2771	16886	28906	2.5	1.0E-100	11418976	NT	Homo sapiens KIAA0957 protein (KIAA0957), mRNA
3083	16259		0.55	1.0E-100	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
4326	17469	30456	1.67	1.0E-100	AF057354.1	NT	Homo sapiens myotubularin-related protein 1a mRNA, partial cds
4351	17494	30474	2.28	1.0E-100	4503792	NT	Homo sapiens follicle stimulating hormone receptor (FSHR) mRNA
5202	18323	31291	3.01	1.0E-100	5032104	NT	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
5202	18323	31292	3.01	1.0E-100	5032104	NT	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
5404	18608	31578	1.74	1.0E-100	BF244218.1	EST_HUMAN	601863184F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4080899 5'
5625	18819	31893	0.76	1.0E-100	AW076983.1	EST_HUMAN	xa62701.X1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2573305 3' similar to gb.X12433
5818	19008	32314	1.45	1.0E-100	AU118182.1	EST_HUMAN	PROTEIN PHPS1-2 (HUMAN);
5864	19054	32361	1.78	1.0E-100	AF135116.1	NT	AU118182 HEMBA1 Homo sapiens cDNA clone HEMBA1003046 5'
5960	19146	32491	0.85	1.0E-100	X14890.1	NT	Homo sapiens NF-E2-related factor 3 gene, complete cds
6292	19465	32817	0.9	1.0E-100	4557568	NT	Human mRNA for plasma inter-alpha-trypsin inhibitor heavy chain H(3)
6292	19465	32818	0.9	1.0E-100	4557568	NT	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6626	19788	33174	5.62	1.0E-100	AU140214.1	EST_HUMAN	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6824	19977	33384	1.36	1.0E-100	R10887.1	EST_HUMAN	AU140214 PLACE2 Homo sapiens cDNA clone PLACE2000137 5'
6908	20223	33663	1.77	1.0E-100	7382479	NT	Y38c08.s1 Scores fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:129134 3'
6982	20210	33638	1.02	1.0E-100	AA496841.1	EST_HUMAN	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
6982	20210	33639	1.02	1.0E-100	AA496841.1	EST_HUMAN	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN. ;
7026	20162	33583	1.18	1.0E-100	BF376478.1	EST_HUMAN	aa33b08.l1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:897587 5' similar to TR-G487418
7026	20162	33584	1.18	1.0E-100	BF376478.1	EST_HUMAN	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN. ;
7033	20169	33591	6.2	1.0E-100	X04571.1	NT	MR1-TN0048-060900-004-b05 TN0048 Homo sapiens cDNA
8729	21809	36346	3.53	1.0E-100	BF103853.1	EST_HUMAN	MR1-TN0048-060900-004-b05 TN0048 Homo sapiens cDNA
8766	21845		5.59	1.0E-100	AL163203.2	NT	Human mRNA for kidney epidermal growth factor (EGF) precursor
9216	22294	35837	0.47	1.0E-100	AU116951.1	EST_HUMAN	601647357F1 NIH_MGC_61 Homo sapiens cDNA clone IMAGE:3931310 5'
9216	22294	35838	0.47	1.0E-100	AU116951.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C003
9433	22507	36079	3.88	1.0E-100	AB040818.1	NT	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9510	22776		1.65	1.0E-100	AB972388.1	EST_HUMAN	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9633	21076	34588	2.28	1.0E-100	AW988611.1	EST_HUMAN	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
							Homo sapiens mRNA for KIAA1485 protein, partial cds
							wr37g09.x1 NCI_CGAP_P28 Homo sapiens cDNA clone IMAGE:2489920 3' similar to contains element
							MER22 repetitive element ;
							PMO-BN0065-100300-001-c08 BN0065 Homo sapiens cDNA

Table 4

Table 1

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9887	22736		0.84	1.0E-100	AU127720.1	EST_HUMAN	AU127720 NT2RP2 Homo sapiens cDNA clone NT2RP2001918 5'
9782	22822	36400	2.17	1.0E-100	AB046846.1	NT	Homo sapiens mRNA for KIAA1628 protein, partial cds
9782	22822	36401	2.17	1.0E-100	AB046846.1	NT	Homo sapiens mRNA for KIAA1628 protein, partial cds
10048	23086	36687	1.81	1.0E-100	AW630487.1	EST_HUMAN	hm83c11.y1 NCL CGAP GU1 Homo sapiens cDNA clone IMAGE:2968396 5'
10048	23086	36688	1.81	1.0E-100	AW630487.1	EST_HUMAN	hm83c11.y1 NCL CGAP GU1 Homo sapiens cDNA clone IMAGE:2968396 5'
10698	23721	37327	0.84	1.0E-100	BF347519.1	EST_HUMAN	60202664F1 NCL CGAP Bm67 Homo sapiens cDNA clone IMAGE:4186165 5'
10782	23815		1.35	1.0E-100	Y10391.1	NT	Human endogenous retrovirus HERV-K, pol gene
10986	24076	37708	6.64	1.0E-100	BF327282.1	EST_HUMAN	MFO-BN0070-270300-008-h11 BN0070 Homo sapiens cDNA
11584	24619	38300	1.56	1.0E-100	X94633.1	NT	H.sapiens CD97 gene exon 4
11584	24619	38301	1.55	1.0E-100	X94633.1	NT	H.sapiens CD97 gene exon 4
11635	24715	38406	3.91	1.0E-100	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
11635	24715	38406	3.91	1.0E-100	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
11635	24715	38408	3.07	1.0E-100	AF163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
11665	13241	26241	2.21	1.0E-100	AF266285.1	NT	Homo sapiens gelsolin-like protein (GLP) gene, complete cds
11977	24982		2.21	1.0E-100	AF266285.1	NT	Homo sapiens class gene, exon 12
12128	25108	38812	1.93	1.0E-100	AJ131034.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)
12177	25137	38832	7.59	1.0E-100	AF240788.1	NT	genes, complete cds
12812	26037		1.78	1.0E-100	BF449549.1	EST_HUMAN	Tq88t03.x1 NCL CGAP Lu24 Homo sapiens cDNA clone IMAGE: 3' similar to TR:Q21987 Q21997
12493	26341	32063	4.97	1.0E-100	11545732	NT	COSMID R151. [2] TR:Q9UA08 :
12754	25500	32033	1.31	1.0E-100	11418123	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
13195	25778	31935	6.91	1.0E-100	11417974	NT	Homo sapiens KIAA00063 gene product (KIAA00063), mRNA
79	13315	26342	0.92	1.0E-101	7110714	NT	Homo sapiens transcalanin II; macrocytic anemia (TCN2), mRNA
79	13315	26343	0.92	1.0E-101	7110714	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
704	13887	26919	1.4	1.0E-101	AB007915.2	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
722	13904	26945	8.12	1.0E-101	7110734	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
722	13904	26946	8.12	1.0E-101	7110734	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
792	13971	27023	1.37	1.0E-101	7657454	NT	Homo sapiens pascasillo (zabrafish) homolog 1, containing BRCT domain (PES1), mRNA
876	14062	27117	1.35	1.0E-101	4503914	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase (GART) mRNA
948	14121	27182	0.85	1.0E-101	Z20668.1	NT	phosphoribosylaminoimidazole synthetase (GART) mRNA
1009	14180	27243	6.07	1.0E-101	BF081218.1	EST_HUMAN	Homo sapiens of cardiac alpha-myosin heavy chain gene
1077	14243	27299	1.39	1.0E-101	A1221878.1	EST_HUMAN	Homo sapiens of NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4297281 5'
1614	14767	27849	1.44	1.0E-101	5921460	NT	ggs8e09.x1 Soares_NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:1943336 3'
							Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA

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Table 4

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1614	14787	27850	1.44	1.0E-101	5821460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1785	14934	28028	1.57	1.0E-101	7682183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1785	14934	28029	1.57	1.0E-101	7682183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1909	15140	28247	2.07	1.0E-101	4502898	NT	Homo sapiens carboxypeptidase A1 (pancreatic) (CPA1), mRNA
2116	15254	28373	2.76	1.0E-101	BE843070.1	EST_HUMAN	RC3-ST0281-160600-016-109 ST0281 Homo sapiens cDNA
2425	16062	28680	1.2	1.0E-101	5728692	NT	Homo sapiens A kinase (PRKA) anchor protein 6 (AKAP6), mRNA
2680	15800	28817	4.62	1.0E-101	X72933.1	NT	H. sapiens EWS gene, exon 5
2802	15916	29025	9.27	1.0E-101	AJ237744.1	NT	Homo sapiens RIBLIR gene (partial), exon 12
2802	15916	29026	9.27	1.0E-101	AJ237744.1	NT	Homo sapiens RIBLIR gene (partial), exon 12
3020	16106		20.16	1.0E-101	AJ252312.1	NT	Homo sapiens genomic downstream Rhesus box
3273	16447	29467	2.97	1.0E-101	4885270	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
3313	16486		2.3	1.0E-101	BF035327.1	EST_HUMAN	60145953F1 NIH_MGC 68 Homo sapiens cDNA clone IMAGE:3862086 5'
3468	16835	29654	1.82	1.0E-101	AW066556.1	EST_HUMAN	EST377620 MAGC resequences, MAGI Homo sapiens cDNA
3487	15916	29025	3.59	1.0E-101	AJ237744.1	NT	Homo sapiens RIBLIR gene (partial), exon 12
3487	15916	29026	3.59	1.0E-101	AJ237744.1	NT	Homo sapiens RIBLIR gene (partial), exon 12
3981	17138	30142	3.81	1.0E-101	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
5147	18269	31239	1.14	1.0E-101	5821460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
5147	18269	31240	1.14	1.0E-101	5821460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
5248	18368	31336	0.6	1.0E-101	BE812654.1	EST_HUMAN	601452067F1 NIH_MGC 68 Homo sapiens cDNA clone IMAGE:3855761 5'
5248	18368	31337	0.6	1.0E-101	BE812654.1	EST_HUMAN	601452067F1 NIH_MGC 68 Homo sapiens cDNA clone IMAGE:3855761 5'
5433	18633	31611	1.94	1.0E-101	AW066139.1	EST_HUMAN	EST377212 MAGC resequences, MAGI Homo sapiens cDNA
6126	19305	32645	4.07	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
6126	19305	32646	4.07	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
6834	19887	33386	0.86	1.0E-101	11430734	NT	Homo sapiens carbonic anhydrase VII (CA7), mRNA
7423	20500		1.26	1.0E-101	11545780	NT	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
7473	20548	34019	4.22	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3), mRNA, alternative splice form 4, partial cds
7473	20548	34020	4.22	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3), mRNA, alternative splice form 4, partial cds
7845	20714	34192	7.65	1.0E-101	AW008475.1	EST_HUMAN	w95912.x1 NC1 CGAP Gas4 Homo sapiens cDNA clone IMAGE:2833487 3'
7749	20809		1.99	1.0E-101	BE257384.1	EST_HUMAN	601108217F1 NIH_MGC 16 Homo sapiens cDNA clone IMAGE:3340901 5'
7900	20962	34459	6.64	1.0E-101	BF330759.1	EST_HUMAN	RC1-BT0313-220700-018-f12 BT0313 Homo sapiens cDNA
8097	21179	34696	0.74	1.0E-101	BE275821.1	EST_HUMAN	601121621F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3345869 5'
8097	21179	34697	0.74	1.0E-101	BE275821.1	EST_HUMAN	601121621F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3345869 5'
8245	21327	34843	1.6	1.0E-101	BF029174.1	EST_HUMAN	601764686F1 NIH_MGC 63 Homo sapiens cDNA clone IMAGE:3995837 5'

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8517	21558	35132	0.71	1.0E-101	AW630070.1	EST_HUMAN	hh74g10.y1 NCL CGAP GU1 Homo sapiens cDNA clone IMAGE:2868578 5' similar to gb:J03143 INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
8517	21558	35133	0.71	1.0E-101	AW630070.1	EST_HUMAN	hh74g10.y1 NCL CGAP GU1 Homo sapiens cDNA clone IMAGE:2868578 5' similar to gb:J03143 INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
9212	22250	35832	1.1	1.0E-101	AA036800.1	EST_HUMAN	z22908.11 Soares_pregnant_uterus_NbHPLU Homo sapiens cDNA clone IMAGE:471888 5' similar to PIR-S54640 S54640 YD6335.03c protein - yeast;
9531	22536	36167	0.99	1.0E-101	AB037772.1	NT	Homo sapiens mRNA for KIAA1351 protein, partial cds
9531	22536	36168	0.99	1.0E-101	AB037772.1	NT	Homo sapiens mRNA for KIAA1351 protein, partial cds
9561	21103	34619	17.36	1.0E-101	X60068.1	NT	Human mRNA for pancreatic gamma-glutamyltransferase
9561	21103	34620	17.36	1.0E-101	X60068.1	NT	Human mRNA for pancreatic gamma-glutamyltransferase
9576	22638	36209	19.41	1.0E-101	9845492	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), transcript variant 3, mRNA
9599	22998	36593	3.36	1.0E-101	BE619687.1	EST_HUMAN	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875953 3'
9599	22998	36594	3.36	1.0E-101	BE619687.1	EST_HUMAN	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875953 3'
10098	23136	36737	0.68	1.0E-101	10963960	NT	Homo sapiens poliovirus channel, subfamily K, member 10 (KCNK10), mRNA
10620	23654	37284	1.94	1.0E-101	11429127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10656	23690	37299	4.37	1.0E-101	AI570283.1	EST_HUMAN	h77d11.x1 NCL CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2184309 3' similar to gb:M26328 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);
10656	23690	37300	4.37	1.0E-101	AI570283.1	EST_HUMAN	h77d11.x1 NCL CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2184309 3' similar to gb:M26328 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);
10771	23804	37426	0.83	1.0E-101	BE973648.1	EST_HUMAN	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950887 5'
10771	23804	37427	0.83	1.0E-101	BE973648.1	EST_HUMAN	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950887 5'
11371	24432	38089	1.31	1.0E-101	AB020626.1	NT	Homo sapiens mRNA for KIAA0819 protein, partial cds
12059	25040	38748	1.85	1.0E-101	AB08168.1	EST_HUMAN	RC-BT163-280499-085 BT163 Homo sapiens cDNA
12059	25040	38749	1.85	1.0E-101	AB08168.1	EST_HUMAN	RC-BT163-280499-085 BT163 Homo sapiens cDNA
12738	25489		2.24	1.0E-101	BE163587.1	EST_HUMAN	QV3-HT0480-230200-101-403 HT0460 Homo sapiens cDNA
12783	25529		12.79	1.0E-101	AW630051.1	EST_HUMAN	QV1-DT0068-240200-085-401 DT0068 Homo sapiens cDNA
40	13278	26284	0.61	1.0E-102	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
351	13562	26589	4.57	1.0E-102	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
635	13820	26844	0.61	1.0E-102	BE252470.1	EST_HUMAN	601108202F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3344326 5'
796	13975	27028	1.06	1.0E-102	4657694	NT	Homo sapiens down-regulated in adenoma (DRA) mRNA
1141	14306	27382	1.9	1.0E-102	M10978.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
1297	14453	27518	2.05	1.0E-102	11437148	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
1297	14453	27519	2.05	1.0E-102	11437148	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
1450	14603	27681	355.9	1.0E-102	BE408447.1	EST_HUMAN	601286082F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3629901 5'

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2383	15514	28842	1.91	1.0E-102	AI124688.1	EST_HUMAN	am60c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1538954 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-65.
2388	15514	28843	1.91	1.0E-102	AI124688.1	EST_HUMAN	am60c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1538954 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-65.
3090	16296		0.74	1.0E-102	Y13932.1	NT	Homo sapiens PRKY exon 7
3133	16309	29322	1.47	1.0E-102	7661979	EST	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
3203	16378	29387	3.73	1.0E-102	AU141005.1	EST_HUMAN	AU141005 PLACE4 Homo sapiens cDNA clone PLACE4000650 5'
3203	16378	29388	3.73	1.0E-102	AU141005.1	EST_HUMAN	AU141005 PLACE4 Homo sapiens cDNA clone PLACE4000650 5'
4347	17490	30472	1.74	1.0E-102	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
4533	17871	30655	2.57	1.0E-102	BE251310.1	EST_HUMAN	y82c04.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:3343882 5'
5224	18346	31316	1.28	1.0E-102	R69488.1	EST_HUMAN	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 7
5487	18886	31704	1.6	1.0E-102	AF067133.1	NT	Homo sapiens HSC54 mRNA for heat shock cognate protein 54, complete cds
5887	19057		6.87	1.0E-102	AB034951.1	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5905	19094	32408	3.25	1.0E-102	7705398	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5905	19094	32409	3.25	1.0E-102	7705398	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5912	19100	32414	0.81	1.0E-102	11433046	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
8422	19591	32956	2.81	1.0E-102	AI459825.1	EST_HUMAN	ar6209.x1 Barstead colon HPLR87 Homo sapiens cDNA clone IMAGE:2151785 3' similar to TRQ13137 Q13137 NDP62.
7227	20090	33507	0.7	1.0E-102	AW451643.1	EST_HUMAN	UI-H-B13-aj-d-10-0-UI.s1 NGL CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736835 3'
7286	20369	33823	0.91	1.0E-102	BE728323.1	EST_HUMAN	601561505F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3831241 5'
7314	20396	33858	1.02	1.0E-102	BE388108.1	EST_HUMAN	601277215F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618243 5'
7429	20509	33977	1.6	1.0E-102	AB023177.1	NT	Homo sapiens mRNA for KIAA0960 protein, partial cds
7510	20584	34057	8.03	1.0E-102	AJ238984.1	NT	Homo sapiens mRNA for Centaurin-alpha2 protein
7802	20858	34350	2.61	1.0E-102	AV710738.1	EST_HUMAN	AV710738 Cu Homo sapiens cDNA clone CUAAKD03 5'
8418	21489	35031	3.85	1.0E-102	BE763051.1	EST_HUMAN	QV3-NT0025-210600-236-H08 NT0025 Homo sapiens cDNA
8691	21771	35301	1.71	1.0E-102	AV694817.1	EST_HUMAN	AV694817 GKX Homo sapiens cDNA clone GKCEEE11 5'
8691	21771	35302	1.71	1.0E-102	AV694817.1	EST_HUMAN	AV694817 GKX Homo sapiens cDNA clone GKCEEE11 5'
8802	21881	35419	0.81	1.0E-102	AB007823.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9131	22210	35754	1.2	1.0E-102	BE388063.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605536 5'
9131	22210	35755	1.2	1.0E-102	BE388063.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605536 5'
9481	22538	36102	0.84	1.0E-102	AV755842.1	EST_HUMAN	AV755842 BM Homo sapiens cDNA clone BMEAUD08 5'
9522	22587	36155	2	1.0E-102	T70393.1	EST_HUMAN	yd13d07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:87021 5'
9522	22587	36156	2	1.0E-102	T70393.1	EST_HUMAN	yd13d07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:87021 5'
9611	22666	36237	3.11	1.0E-102	AU124629	EST_HUMAN	AU124629 NT2RM4 Homo sapiens cDNA clone NT2RM4000309 5'

Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10593	23628		0.64	1.0E-102	AF153715.1	NT	Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region
10647	23681	37291	0.67	1.0E-102	11425430	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
10647	23681	37292	0.67	1.0E-102	11425430	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
10687	23720	37325	3.26	1.0E-102	AB05037.1	EST_HUMAN	RC-BT074-260499-014 BT074 Homo sapiens cDNA
10687	23720	37326	3.26	1.0E-102	AB05037.1	EST_HUMAN	RC-BT074-260499-014 BT074 Homo sapiens cDNA
10748	23781	37394	1.5	1.0E-102	AA970786.1	EST_HUMAN	on57h04.s1 Soares_NFL_T_CGC_S1 Homo sapiens cDNA clone IMAGE:1560823 3' similar to SW-CAV2_HUMAN P61696 CAVEOLIN-2 [1]:
11323	24388	38050	1.37	1.0E-102	BE897468.1	EST_HUMAN	601439392F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924166 5'
11327	24380	38035	2.44	1.0E-102	4507822	NT	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
11327	24380	38036	2.44	1.0E-102	4507822	NT	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
11600	24653	38537	1.47	1.0E-102	AA688675.1	EST_HUMAN	ak49h10.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1409347 3'
11680	24658	38378	2.47	1.0E-102	BF359243.1	EST_HUMAN	RC8-ET0072-150600-011-F01 ET0072 Homo sapiens cDNA
12009	24994	38698	2.83	1.0E-102	U41302.1	NT	Human chromosome 16 creatine transporter (SLC6A8) and (GDM) paralogous genes, complete cds
12182	25142		5.69	1.0E-102	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
12775	25517	32000	5.67	1.0E-102	AW300862.1	EST_HUMAN	x607c12x1 NCI_CGAP_Co20 Homo sapiens cDNA clone IMAGE:2666038 3'
12831	25553	32015	1.25	1.0E-102	11419150	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4), mRNA
71	13308	26331	0.85	1.0E-103	BE908158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
71	13308	26332	0.85	1.0E-103	BE908158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
102	13338	26385	8.24	1.0E-103	D87078.2	NT	Homo sapiens mRNA for KIAA0235 protein, partial cds
213	13436	26466	0.84	1.0E-103	5453793	NT	Homo sapiens nucleolar protein (KKE/D repeat) (NOP56) mRNA
1004	14176	27234	74.34	1.0E-103	AJ278348.1	NT	Homo sapiens mRNA for pregnancy-associated plasma protein-E (PAPPE gene)
1272	14429	27500	7.08	1.0E-103	BE877541.1	EST_HUMAN	601485388F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887876 5'
1628	14778	27863	3.51	1.0E-103	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
1984	15107	28207	1.02	1.0E-103	7657692	NT	Homo sapiens ring GDS-ASSOCIATED PROTEIN (SMAP), mRNA
2031	15172	28280	0.95	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2031	15172	28281	0.95	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2379	15510	28638	1.95	1.0E-103	AU134091.1	EST_HUMAN	AU134091 PLACE1 Homo sapiens cDNA clone PLACE1000965 5'
2523	15948	28772	1.84	1.0E-103	AF060568.1	NT	Homo sapiens promyelocytic leukemia zinc finger protein (PLZF) gene, complete cds
2685	15805	28921	1	1.0E-103	N32770.1	EST_HUMAN	yw91d08.s1 Soares_placenta_8weeks_2NbhHP8b09W Homo sapiens cDNA clone IMAGE:269669 3'
3137	16313		2.76	1.0E-103	BE744722.1	EST_HUMAN	601573113F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3834315 5'
3467	16634	28653	5.33	1.0E-103	AW286245.1	EST_HUMAN	UI-H-BW0-epi-h-11-Q-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:2733165 3'

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3526	16691	29700	0.95	1.0E-103	AB040892.1	NT	Homo sapiens mRNA for KIAA1459 protein, partial cds
3850	17010		5.46	1.0E-103	AF023861.1	NT	Macaca mulatta cyclophilin A mRNA, complete cds
3894	17053	30053	0.9	1.0E-103	AA485683.1	EST_HUMAN	element LTR10 repetitive element ;
3933	17092	30060	1.54	1.0E-103	11430876	NT	Homo sapiens neuropilin 1 (NRP1), mRNA
4110	17264	30264	4.63	1.0E-103	T23683.1	EST_HUMAN	seq340 b4HB3MA-Cot109+10-Bio Homo sapiens cDNA clone b4HB3MA-Cot109+10-Bio-7'3'
5325	18438		0.63	1.0E-103	AA481618.1	EST_HUMAN	z43504.1 Soares total_fetus_Nb2Hf8_9w Homo sapiens cDNA clone IMAGE:789189 5' similar to
6056	19238	32563	0.9	1.0E-103	BF569527.1	EST_HUMAN	TR:G292352 G292352 COLLAGEN CHAIN RH ;
6063	19245	32571	1.67	1.0E-103	AF178956.1	NT	602186023F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4310573 5'
6397	19568	32926	0.8	1.0E-103	11435053	NT	Homo sapiens septin 2 (SEPT2) mRNA, partial cds
6397	19568	32927	0.8	1.0E-103	11435053	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6587	19748	33130	0.84	1.0E-103	AW954566.1	EST_HUMAN	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6587	19748	33131	0.84	1.0E-103	AW954566.1	EST_HUMAN	EST366636 MAGC resequences, MAGC Homo sapiens cDNA
6725	25831	33273	1.15	1.0E-103	AA781442.1	EST_HUMAN	EST366636 MAGC resequences, MAGC Homo sapiens cDNA
6768	19824	33318	0.91	1.0E-103	AF053490.1	NT	aj28e03.s1 Soares testis_NHT Homo sapiens cDNA clone 1391452 3'
6859	20011	33422	1.66	1.0E-103	AI590071.1	EST_HUMAN	Homo sapiens glycine receptor alpha 2 subunit (GLRA2) gene, exon 4
6859	20011	33423	1.66	1.0E-103	AI590071.1	EST_HUMAN	tm58b05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769
6967	18506	31521	1.77	1.0E-103	5032282	NT	Q13769 ANONYMOUS ;
6967	18506	31522	1.77	1.0E-103	5032282	NT	tm58b05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769
7108	18535	31490	1.04	1.0E-103	11431100	NT	Q13769 ANONYMOUS ;
7178	20310	33753	0.98	1.0E-103	AJ289880.1	NT	tm58b05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769
7375	20454	33919	1.88	1.0E-103	AW965776.1	EST_HUMAN	Homo sapiens dyshp (muscular dystrophy, Duchenne and Becker types), includes DXS142, DXS164, DXS206, DXS230, DXS239, DXS268, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
7488	20563	34032	3.6	1.0E-103	BE748198.1	EST_HUMAN	Homo sapiens dyshp (muscular dystrophy, Duchenne and Becker types), includes DXS142, DXS164, DXS206, DXS230, DXS239, DXS268, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
7651	21001	34511	4	1.0E-103	AI590071.1	EST_HUMAN	Homo sapiens ribosomal protein L3-like (RPL3L), mRNA
7951	21001	34512	4	1.0E-103	AI590071.1	EST_HUMAN	Homo sapiens KIAA0851 gene (partial), X13 gene and LZTFL1 gene

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8494	21565	35101	0.59	1.0E-103	T31080.1	EST_HUMAN	EST27183 Human Brain Homo sapiens cDNA 5' end similar to None
8822	21601	35440	1.05	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE200374 5'
8822	21601	35441	1.05	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE200374 5'
8900	21979	35518	1.34	1.0E-103	BF108244.1	EST_HUMAN	700603.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3625864 3' similar to SW-PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1;
8907	22383	35634	3.18	1.0E-103	6005621	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
8907	22383	35635	3.18	1.0E-103	6005621	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9349	22425	35980	0.97	1.0E-103	AA581086.1	EST_HUMAN	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
10283	23238	36896	2.04	1.0E-103	Z37976.1	NT	h19a02.s1 NCI CGAP_Ov1 Homo sapiens cDNA clone IMAGE:800162 3' similar to gb:U2426 28S
10304	23339	36944	2.07	1.0E-103	AW963578.1	EST_HUMAN	EST375749 IMAGE resequences, MAG1 Homo sapiens cDNA
10443	23478	37083	10.79	1.0E-103	A878966.1	EST_HUMAN	au51g04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2516326 5' similar to TR:O15046 O15046 KIAA0338;
10878	23663	37591	1.52	1.0E-103	BE549708.1	EST_HUMAN	7b41103.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3230813 3' similar to gb:M69043 MAJOR HISTOCOMPATIBILITY COMPLEX ENHANCER-BINDING PROTEIN (HUMAN);
10971	24051	37684	9.5	1.0E-103	A1782759.1	EST_HUMAN	cd22d08.y6 NCI CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1622283 5' similar to TR:Q62084 Q62084 PHOSPHOLIPASE C NEIGHBORING;
11072	24147	37785	2.45	1.0E-103	11424061	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
11072	24147	37786	2.45	1.0E-103	11424061	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
11083	24157	37784	2.4	1.0E-103	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
11083	24157	37785	2.4	1.0E-103	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
11658	24735	38426	2.87	1.0E-103	AU136283.1	EST_HUMAN	AU136283 PLAGE1 Homo sapiens cDNA clone PLACE1003923 5'
11731	23917	37542	4.1	1.0E-103	L43610.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
11968	24963		1.71	1.0E-103	AB024769.1	NT	Homo sapiens TSA305 gene, exon 16
12044	25025	38730	2.28	1.0E-103	BE644611.1	EST_HUMAN	7e68a10.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3287610 3' similar to contains MER29.13 MER29 repetitive element;
12178	25138		3.4	1.0E-103	AF224669.1	NT	(UBE2D3) genes, complete cds
12209	25162		1.22	1.0E-103	11526291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
12414	26233	32083	1.71	1.0E-103	AB011389.1	NT	Homo sapiens gene for AF-6, complete cds
243	13465	26494	2.46	1.0E-104	AL037549.3	EST_HUMAN	DKFZp564H1072.1 564 (synonym: hfrb2) Homo sapiens cDNA clone DKFZp564H1072 5'
243	13465	26495	2.46	1.0E-104	AL037549.3	EST_HUMAN	DKFZp564H1072.1 564 (synonym: hfrb2) Homo sapiens cDNA clone DKFZp564H1072 5'
1937	15080	28182	1.92	1.0E-104	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2267	15400	28528	33.29	1.0E-104	AA132975.1	EST_HUMAN	z022cd06.s1 Stratiogene codon (#937204) Homo sapiens cDNA clone IMAGE:587628 3' similar to gb:2141116.m1 CD59 GLYCOPROTEIN PRECURSOR (HUMAN);
2277	15409	28540	4.55	1.0E-104	BE744628.1	EST_HUMAN	G01577460F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926438 5'
2442	15570	28698	9.73	1.0E-104	BF334221.1	EST_HUMAN	RC1-CT0249-110900-214-f12 CT0249 Homo sapiens cDNA
2442	15570	28699	9.73	1.0E-104	BF334221.1	EST_HUMAN	RC1-CT0249-110900-214-f12 CT0249 Homo sapiens cDNA
2506	15633	28753	2	1.0E-104	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homologue (ACTR2), mRNA
2934	16111	28126	17.99	1.0E-104	M34671.1	NT	Human lymphocytic antigen CD59/MEI43 mRNA, complete cds
2983	16159		2.15	1.0E-104	Y1151.1	NT	H.sapiens gene encoding phenylpyruvate tautomerase II
3337	16510	28626	0.89	1.0E-104	AU133928.1	EST_HUMAN	AU133928 OVARC1 Homo sapiens cDNA clone OVARC1000938 5'
3478	16845		2.33	1.0E-104	AA319436.1	EST_HUMAN	EST21658 Adrenal gland tumor Homo sapiens cDNA 5' end
3690	16852	28660	0.65	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3690	16852	28661	0.65	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
4053	17209	30219	0.71	1.0E-104	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
4248	17394	30383	0.71	1.0E-104	F11745.1	EST_HUMAN	HSC31A071 normalized infant brain cDNA Homo sapiens cDNA clone o-31a07
4496	17636	30618	33.95	1.0E-104	X02761.1	NT	Human mRNA for fibronectin (FN precursor)
4732	17867	30949	1.2	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
4732	17867	30950	1.2	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
6081	18243	32567	1.05	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
6061	18243	32568	1.05	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
6108	18298	32623	0.83	1.0E-104	AB017332.1	NT	Homo sapiens atk3 mRNA for Aurora/Ip1-related kinase 3, complete cds
6596	19756	33142	8.5	1.0E-104	A768797.1	EST_HUMAN	w03b12x1 NCI CGAP_K0412 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TRC:Q14145 Q14145 KIAA0132 PROTEIN, contains element LTR7 repetitive element;
6596	19756	33143	8.5	1.0E-104	A768797.1	EST_HUMAN	w03b12x1 NCI CGAP_K0412 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TRC:Q14145 Q14145 KIAA0132 PROTEIN, contains element LTR7 repetitive element;
6788	19841	33339	0.74	1.0E-104	7708512	NT	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
6942	20255	33692	3.39	1.0E-104	BE314182.1	EST_HUMAN	G01150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
6942	20255	33693	3.39	1.0E-104	BE314182.1	EST_HUMAN	G01150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
7373	20462	33917	2.01	1.0E-104	11425572	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
8736	21875	35414	0.87	1.0E-104	BF509244.1	EST_HUMAN	UHH-B14-80w-b-09-Q-U1.s1 NCI CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086176 3'
9368	22443	36004	2.41	1.0E-104	BF448230.1	EST_HUMAN	had16g11.x1 NCI CGAP_L024 Homo sapiens cDNA clone IMAGE:3365948 3'
9463	22620	36082	0.46	1.0E-104	AA682308.1	EST_HUMAN	z98b06.s1 Soares fetal liver spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462887 3'
9484	22541		1.03	1.0E-104	T74219.1	EST_HUMAN	ye83f02.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:22440 5'
9515	22580	36146	5	1.0E-104	AF091395.1	NT	Homo sapiens T10 isoform mRNA, complete cds
9515	22580	36147	5	1.0E-104	AF091395.1	NT	Homo sapiens T10 isoform mRNA, complete cds

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9841	21084	34507	4.14	1.0E-104	BF352841.1	EST_HUMAN	IL3-IT0619-080900-249-F07 HT0619 Homo sapiens cDNA
9841	21084	34598	4.14	1.0E-104	BF352841.1	EST_HUMAN	IL3-IT0619-080900-249-F07 HT0619 Homo sapiens cDNA
9855	22904	36589	0.92	1.0E-104	AW103948.1	EST_HUMAN	xd76d02x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603523 3' similar to TR-Q24116 Q24116 HYPOTHETICAL 28.4 KD PROTEIN ;
9855	22904	36589	0.92	1.0E-104	AW103948.1	EST_HUMAN	xd76d02x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603523 3' similar to TR-Q24116 Q24116 HYPOTHETICAL 28.4 KD PROTEIN ;
9855	22904	36589	0.92	1.0E-104	AW103948.1	EST_HUMAN	xd76d02x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603523 3' similar to TR-Q24116 Q24116 HYPOTHETICAL 28.4 KD PROTEIN ;
10153	23180	36787	0.49	1.0E-104	AF13614.1	NT	Homo sapiens histone acetyltransferase MORF mRNA, complete cds
10268	23333	36837	3.15	1.0E-104	BE781713.1	EST_HUMAN	601581503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
10268	23333	36838	3.16	1.0E-104	BE781713.1	EST_HUMAN	601581503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
10611	23845	37253	1.49	1.0E-104	AV728070.1	EST_HUMAN	AV728070 HTC Homo sapiens cDNA clone HTC8YA07 5'
10657	23691	37301	4.47	1.0E-104	AU130765.1	EST_HUMAN	AU130765 NT2RP3 Homo sapiens cDNA clone NT2RP3001398 5'
10757	23780	37407	0.64	1.0E-104	AU130765.1	EST_HUMAN	co06a10 st Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1665370 3'
10757	23780	37408	0.54	1.0E-104	AA931321.1	EST_HUMAN	co06a10 st Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1665370 3'
10774	23807	37430	5.4	1.0E-104	U68535.1	NT	Human beta4-tubulin (ITGB4) gene, exons 19, 20, 21, 22, 23, 24 and 25
10791	23824	38310	0.74	1.0E-104	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
11577	24632	38310	44.88	1.0E-104	BE720191.1	EST_HUMAN	RC0-HT0885-310700-021-b09 HT0885 Homo sapiens cDNA
11577	24632	38311	44.88	1.0E-104	BE720191.1	EST_HUMAN	RC0-HT0885-310700-021-b09 HT0885 Homo sapiens cDNA
11611	24663	38350	4.1	1.0E-104	BF684288.1	EST_HUMAN	602141215F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302507 5'
12082	25062	38768	48.12	1.0E-104	11434729	NT	Homo sapiens ribosomal protein S6 kinase, 90kD, polypeptide 5 (RPS6KA5), mRNA
13073	25702		1.32	1.0E-104	BE363892.1	EST_HUMAN	601312181F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3668676 5'
289	15981	26541	2.57	1.0E-105	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease resistant), Alzheimer disease (APP), mRNA
438	13238	26238	8.69	1.0E-105	4505150	NT	Homo sapiens Meis1 (mouse) homolog (MEIS1) mRNA
607	13786	26815	2.51	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
607	13788	26816	2.51	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
1865	15011	28118	10.24	1.0E-105	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
1979	15122	28223	2.39	1.0E-105	D50918.1	NT	Human mRNA for KIAA0128 gene, partial cds
2263	15398	28624	3.08	1.0E-105	AA316369.1	EST_HUMAN	EST20609 Spleen 1 Homo sapiens cDNA 5' end similar to autoimmune antigen Ku, p70/p80 subunit
2298	15529		1.18	1.0E-105	BE891766.1	EST_HUMAN	601434491F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919511 5'
2784	15900		0.98	1.0E-105	AA584808.1	EST_HUMAN	no10d05.s1 NCI CGAP Phe1 Homo sapiens cDNA clone IMAGE:1100285 3'
3071	16247		2.79	1.0E-105	AJ228041.1	NT	Homo sapiens 559 kb confg between AML1 and CBR1 on chromosome 21q22, segment 1/3
3432	16900	29618	0.86	1.0E-105	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
3432	16900	29619	0.86	1.0E-105	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4213	17362	30350	2.23	1.0E-105	AW961688.1	EST_HUMAN	EST1373781 IMAGE resequences, MAGG Homo sapiens cDNA

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5033	18181		5.34	1.0E-105	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
5259	18378	31344	1.08	1.0E-105	AB020573.1	NT	Homo sapiens mRNA for KIAA0866 protein, complete cds
5445	18645	31623	1.18	1.0E-105	AF016704.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 2
5513	18711		1.12	1.0E-105	11420134	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPE-1), mRNA
7045	20098	33513	1.44	1.0E-105	BF314302.1	EST_HUMAN	601901028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:419334 5'
7045	20098	33514	1.44	1.0E-105	BF314302.1	EST_HUMAN	601901028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:419334 5'
7121	18547	31458	3.78	1.0E-105	11419198	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
7121	18547	31459	3.78	1.0E-105	11419198	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
7167	20300	33743	0.72	1.0E-105	AW951634.1	EST_HUMAN	EST1363688 MAGI resequences, MAGI Homo sapiens cDNA
7436	20513	33988	0.72	1.0E-105	BE902816.1	EST_HUMAN	601677270F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3980019 5'
8043	21128	34647	0.83	1.0E-105	X12556.1	NT	Human mRNA for dcl proto-oncogene
8217	21298	34820	11.05	1.0E-106	T05087.1	EST_HUMAN	EST102975 Fetal brain, Strategene (cat#336208) Homo sapiens cDNA clone HFBRC32
8682	21673	35211	1.63	1.0E-105	AW007194.1	EST_HUMAN	EST102975 Fetal brain, Strategene (cat#336208) Homo sapiens cDNA clone IMAGE:2500628 3' similar to
9128	22207	35750	0.82	1.0E-105	AW040817.1	EST_HUMAN	SW/ACSA_PENCH F36333 ACETYL-COENZYME A SYNTHETASE ;
9250	22327	35874	2.51	1.0E-105	AW016878.1	EST_HUMAN	RC1-CN0008-070100-011-e05 CN0008 Homo sapiens cDNA
9404	22478	36041	0.83	1.0E-105	AW882372.1	EST_HUMAN	U1-H10p-ab1-b-12-0-U1.1 NCL_GGAP_Sub2 Homo sapiens cDNA clone IMAGE:2711782 3'
9404	22478	36042	0.83	1.0E-105	AW882372.1	EST_HUMAN	QV2-OT0062-140300-083-009 OT0062 Homo sapiens cDNA
9767	22764	36333	0.75	1.0E-105	BE967783.1	EST_HUMAN	QV2-OT0062-140300-083-009 OT0062 Homo sapiens cDNA
9767	22764	36334	0.75	1.0E-105	BE967783.1	EST_HUMAN	601443755F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847884 5'
11173	24243	37876	4.82	1.0E-105	AF254822.1	NT	601443755F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847884 5'
11508	24564	38241	1.42	1.0E-105	D63548.1	NT	Homo sapiens SMARCA4 isoform (SMARCA4) gene, complete cds, alternatively spliced
11559	24614	38293	1.85	1.0E-105	7705936	NT	Homo sapiens COL4A8 gene for a6(IV) collagen, exon 31
11987	24875	38572	2.62	1.0E-105	AW027554.1	EST_HUMAN	Homo sapiens Ran binding protein 11 (LOC61194), mRNA
11972	24957	38659	1.48	1.0E-105	BF430921.1	EST_HUMAN	Homo sapiens Ran binding protein 11 (LOC61194), mRNA
12111	25091	38794	1.3	1.0E-105	AF218896.1	NT	PR78892 PROTEASE ;
155	13380	26484	0.88	1.0E-106	AW503208.1	EST_HUMAN	7018c10.x1 NCL_GGAP_Kid11 Homo sapiens cDNA clone IMAGE:3574281 3' similar to TR:P97680 P97680
210	13433	26484	5.14	1.0E-106	AW503208.1	EST_HUMAN	RIN1 ;
555	13748	26774	1.89	1.0E-106	AW905556.1	EST_HUMAN	Homo sapiens attractin precursor (ATRIN) gene, exon 8
620	13807	26828	0.8	1.0E-106	J00146.1	NT	U1-HF-BNO-ak-g-07-0-UL1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076348 5'
621	13807	26828	1.13	1.0E-106	J00146.1	NT	U1-HF-BNO-ak-g-07-0-UL1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076348 5'
1554	14707	27767	8.84	1.0E-106	AF145712.1	NT	EST137629 MAGI resequences, MAGI Homo sapiens cDNA

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1736	14895	27978	7.83	1.0E-106	U48724.1	NT	Human epidermal growth factor receptor (EGFR) precursor-mRNA, exon 4, partial cds
1757	14906	28000	1.33	1.0E-106	U04510.1	NT	Homo sapiens type IV collagen alpha 5 chain (COL4A5) gene, exon 41
1846	14992	28093	5.51	1.0E-106	AA527448.1	EST_HUMAN	ng41c05.s1 NCL_CGAP_Co3 Homo sapiens cDNA clone IMAGE:337352 3' similar to contains element LTR3 repetitive element:
1846	14992	28094	5.51	1.0E-106	AA527448.1	EST_HUMAN	ng41c05.s1 NCL_CGAP_Co3 Homo sapiens cDNA clone IMAGE:337352 3' similar to contains element LTR3 repetitive element:
2191	15326	28461	1.94	1.0E-106	BE144288.1	EST_HUMAN	MRO-HT0165-140200-008-410 HTD165 Homo sapiens cDNA
2391	15522	28651	3.62	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2574	16689	28821	2.19	1.0E-106	AF003528.1	NT	Homo sapiens X-linked ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
2667	16788	28904	1.93	1.0E-106	U64875.2	NT	Homo sapiens sperm membrane protein BS-63 mRNA, complete cds
2693	15780	28906	2.01	1.0E-106	BE260201.1	EST_HUMAN	601149783F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502461 5'
2815	15929	29041	8.05	1.0E-106	AI276528.1	EST_HUMAN	q178h10.x1 Soares_NH_HMPU_S1 Homo sapiens cDNA clone IMAGE:1878307 3'
2886	14817	27700	1.84	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2886	14817	27701	1.84	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2839	16116	29128	1.18	1.0E-106	BE384296.1	EST_HUMAN	601272675F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3613818 5'
3007	16182	29204	5.7	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1328 protein, partial cds
3007	16182	29205	5.7	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1328 protein, partial cds
3248	16422	29438	2.6	1.0E-106	8922865	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3248	16422	29439	2.5	1.0E-106	8922865	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3461	16528	29648	1.04	1.0E-106	AB008681.1	NT	Homo sapiens gene for acylin receptor type IIB, complete cds
3527	16592	29701	1.07	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3527	16592	29702	1.07	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
4149	17301	30293	9.2	1.0E-106	AW974650.1	EST_HUMAN	EST398875 MAGC resequences, MAGN Homo sapiens cDNA
4149	17301	30294	8.2	1.0E-106	AW974650.1	EST_HUMAN	EST398875 MAGC resequences, MAGN Homo sapiens cDNA
4723	17858	30840	2.27	1.0E-106	BE144286.1	EST_HUMAN	MRO-HTD165-140200-008-410 HTD165 Homo sapiens cDNA
5485	18684	31701	2.95	1.0E-106	AA781155.1	EST_HUMAN	aj24b08.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391225 3' similar to gbaX12433 PROTEIN PHPS1-2 (HUMAN);
5976	19161	32480	0.95	1.0E-106	AU130113.1	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
5976	19161	32481	0.95	1.0E-106	AU130113.1	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
6028	19209	32528	0.81	1.0E-106	AA434168.1	EST_HUMAN	z628d12.s1 Soares_ova/tumor_NbHOT Homo sapiens cDNA clone IMAGE:770615 3'
6116	19296	32631	1	1.0E-106	AU143428.1	EST_HUMAN	AU143428 Y78AA1 Homo sapiens cDNA clone Y78AA1001912 5'
6116	19296	32632	1	1.0E-106	AU143428.1	EST_HUMAN	AU143428 Y78AA1 Homo sapiens cDNA clone Y78AA1001912 5'
6227	19402	32752	8.39	1.0E-106	BF679574.1	EST_HUMAN	602154012F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4285067 5'

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6336	19507	32864	0.81	1.0E-108	BE897112.1	EST_HUMAN	601439670F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924641 5'
6526	19507	32864	0.86	1.0E-108	BE897112.1	EST_HUMAN	601439670F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924641 5'
6649	19711	33087	16.91	1.0E-106	11645913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
6549	19711	33088	15.91	1.0E-106	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
7528	20601	34075	5.69	1.0E-108	AA663778.1	EST_HUMAN	aa72607.s1 Stratiotes schizobrain S11 Homo sapiens cDNA clone IMAGE:968732 3' similar to gb:U65873
7582	20654	34130	4.17	1.0E-108	11429817	NT	KINESIN HEAVY CHAIN (HUMAN);
7672	20738	34216	1.84	1.0E-108	BE292722.1	EST_HUMAN	Homo sapiens XPM22 protein (LOC57109), mRNA
7787	20843	34335	8.06	1.0E-108	11425503	NT	601105738F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988345 5'
7787	20843	34336	8.06	1.0E-108	11425503	NT	Homo sapiens sorting nexin 11 (SNX11), mRNA
7894	21044	34558	0.8	1.0E-108	AU116850.1	EST_HUMAN	Homo sapiens sorting nexin 11 (SNX11), mRNA
8173	21255	34776	3.82	1.0E-108	BE741408.1	EST_HUMAN	AL1118850 HEMBA1 Homo sapiens cDNA clone HEMBA1000129 5'
8173	21255	34777	3.62	1.0E-108	BE741408.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3904463 5'
8388	21449	34972	2.21	1.0E-108	AJ523086.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3904463 5'
8830	21909	35447	0.84	1.0E-108	BE387950.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3904463 5'
8830	21909	35448	0.84	1.0E-108	BE387950.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3904463 5'
8903	21982	35522	2.77	1.0E-108	AJ654123.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3904463 5'
9252	22329	35876	0.83	1.0E-108	AW638831.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3904463 5'
9346	22424	35978	2.34	1.0E-108	AA825307.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3904463 5'
9346	22424	35979	2.34	1.0E-108	AA825307.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3904463 5'
9486	22543	36108	0.77	1.0E-108	AJ750447.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3904463 5'
9623	22694	36255	1.94	1.0E-108	AJ479569.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3904463 5'
9623	22694	36256	1.94	1.0E-108	AJ479569.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3904463 5'
10205	23241	36832	0.6	1.0E-108	BE389234.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3904463 5'
10289	23324	36928	1.09	1.0E-108	BF027310.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3904463 5'
10289	23324	36927	1.09	1.0E-108	BF027310.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3904463 5'
10446	23481	37088	10.7	1.0E-108	AA604417.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3904463 5'
10446	23481	37089	10.7	1.0E-108	AA604417.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3904463 5'
10492	23627	37136	1.83	1.0E-108	AW363289.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3904463 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10497	28532	37141	0.66	1.0E-108	11436432	NT	Homo sapiens multimerin (MMRN), mRNA
10497	28532	37142	0.66	1.0E-108	11436432	NT	Homo sapiens multimerin (MMRN), mRNA
10678	28712	37320	0.65	1.0E-108	AL039888.1	EST_HUMAN	DKFZp434F0712.1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434F0712.5
10807	28840	37464	4.26	1.0E-108	AL163202.2	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C002
11135	24207	37832	4.81	1.0E-108	BF032755.1	EST_HUMAN	601453461F1 NIH_MGC 68 Homo sapiens cDNA clone IMAGE:3857368 5'
11135	24207	37833	4.81	1.0E-108	BF032755.1	EST_HUMAN	601453461F1 NIH_MGC 68 Homo sapiens cDNA clone IMAGE:3857368 5'
11317	24380	38025	2.08	1.0E-108	J05200.1	NT	Human pyridoxine receptor mRNA, complete cds
11317	24380	38026	2.08	1.0E-108	J05200.1	NT	Human pyridoxine receptor mRNA, complete cds
11694	24692	38383	1.35	1.0E-106	BE267385.1	EST_HUMAN	601109218F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3346987 5'
11837	24828	38514	1.89	1.0E-108	BE010882.1	EST_HUMAN	RC5-BN0182-100500-021-B02 BN0182 Homo sapiens cDNA
11837	24828	38515	1.89	1.0E-108	BE010882.1	EST_HUMAN	RC5-BN0182-100500-021-B02 BN0182 Homo sapiens cDNA
12253	25046		4.3	1.0E-106	AW410405.1	EST_HUMAN	fl05h11.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2861644 5'
12494	25336	32069	1.97	1.0E-106	BE894488.1	EST_HUMAN	601433087F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3918524 5'
12494	25336	32069	1.97	1.0E-106	BE894488.1	EST_HUMAN	601433087F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3918524 5'
12717	25477		3.71	1.0E-108	BE695905.1	EST_HUMAN	RC1-CT0249-080800-024-005 CT0249 Homo sapiens cDNA
244	13466		4.52	1.0E-107	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
275	13483		0.9	1.0E-107	X60459.1	NT	Human IFNAR gene for Interferon alpha/beta receptor
637	13922		1.03	1.0E-107	4826883	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
647	13832	26858	2.34	1.0E-107	AF165103.1	NT	Homo sapiens NY-REN-25 antigen mRNA, partial cds
835	14014	27059	1.02	1.0E-107	X60459.1	NT	Human IFNAR gene for Interferon alpha/beta receptor
909	14084	27149	1.38	1.0E-107	X60459.1	NT	Human IFNAR gene for Interferon alpha/beta receptor
981	14163	27223	8.71	1.0E-107	AF154121.1	NT	Homo sapiens sodium-dependent high-affinity dicarboxylate transporter (NADC3) mRNA, complete cds
1307	14463	27531	1.06	1.0E-107	AB032253.1	NT	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
1600	14763	27836	3.81	1.0E-107	BF087405.1	EST_HUMAN	QV2-HT0540-120900-358-a05 HT0540 Homo sapiens cDNA
1791	14940	28033	5.42	1.0E-107	AF136275.1	NT	Homo sapiens cathepsin Z precursor (CTSZ) gene, exon 3
1887	15031	28136	1.52	1.0E-107	AB007822.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
1887	15031	28136	1.52	1.0E-107	AB007822.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
2282	15414	28546	3.77	1.0E-107	U13729.1	NT	Human dipeptidyl peptidase IV (CD26) gene, exon 20
2435	15563	28691	4.03	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-403 CN0031 Homo sapiens cDNA
2435	15563	28692	4.03	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-403 CN0031 Homo sapiens cDNA
3072	16248	29268	6.14	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-403 CN0031 Homo sapiens cDNA
3072	16248	29269	6.14	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-403 CN0031 Homo sapiens cDNA
3169	16344	29352	2.9	1.0E-107	5902097	NT	Homo sapiens SMT3 (suppressor of mitf two 3, yeast) homolog 2 (SMT3H2), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3931	17090	30087	4.89	1.0E-107	AF020871.1	NT	Homo sapiens myotubularin (MTM1) gene, exon 8
5742	18935	32235	0.84	1.0E-107	AW968038.1	EST_HUMAN	EST381115 IMAGE resequences, MAGK Homo sapiens cDNA
5986	19171	32493	2.71	1.0E-107	BE867499.1	EST_HUMAN	601442558F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846484 5'
7620	20593	34067	1.33	1.0E-107	AW503913.1	EST_HUMAN	UI-HF-BNO-att-c-08-Q-JL1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079310 5'
7520	20563	34068	1.33	1.0E-107	AW503913.1	EST_HUMAN	UI-HF-BNO-att-c-08-Q-JL1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079310 5'
7698	20763	34247	1.38	1.0E-107	AW503913.1	EST_HUMAN	W156804.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2384781 3'
7909	20961	34467	0.59	1.0E-107	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9) gene
7909	20961	34468	0.59	1.0E-107	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9) gene
9587	22729	36298	0.99	1.0E-107	AU122488.1	EST_HUMAN	ALJ122488 MAMMA1 Homo sapiens cDNA clone MAMMA1002433 5'
10889	23873	37604	1.92	1.0E-107	BE168726.1	EST_HUMAN	QV1-HT0516-140300-107-c10 HT0516 Homo sapiens cDNA
10944	24026	37692	2.06	1.0E-107	AJ32850.1	EST_HUMAN	ig10d06.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2108363 3' similar to SW:AACT_DICD1
11189	24258	37894	1.58	1.0E-107	L49141.1	NT	POS095 ALPHA-ACTININ 3, NON MUSCULAR;
11202	24271	37807	2.3	1.0E-107	BF686511.1	EST_HUMAN	Homo sapiens neuroendocrine-specific protein (NSP) gene, exon 4
11603	24658	38341	3.91	1.0E-107	BE540550.1	EST_HUMAN	60212393F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281038 5'
11678	23904	37526	4.29	1.0E-107	11419701	NT	60106888F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452829 5'
11678	23904	37527	4.28	1.0E-107	11419701	NT	Homo sapiens HSPC049 protein (HSPC049), mRNA
12322	26100		7.14	1.0E-107	AA001415.1	EST_HUMAN	Homo sapiens HSPC049 protein (HSPC049), mRNA
13211	25790	31920	1.24	1.0E-107	BE786189.1	EST_HUMAN	2845e01.s1 Soares retina NZB-4HR Homo sapiens cDNA clone IMAGE:361944 3' similar to contains THR.b1
977	14160	27210	1.72	1.0E-108	BE280042.1	EST_HUMAN	THR repetitive element;
1284	14450	27515	2.41	1.0E-108	Y18000.1	NT	60158265F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3637188 5'
2140	15276	26398	1.02	1.0E-108	BF028728.1	EST_HUMAN	601177018F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532348 5'
2407	15538	26665	12.11	1.0E-108	A1688040.1	EST_HUMAN	Homo sapiens NF2 gene
2407	15538	26666	12.11	1.0E-108	A1688040.1	EST_HUMAN	Homo sapiens NF2 gene
2459	18628	28748	11.98	1.0E-108	BE206694.1	EST_HUMAN	601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954939 5'
3026	16201	28224	0.64	1.0E-108	6005979	NT	601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954939 5'
3430	16598	29614	0.64	1.0E-108	AF032897.1	NT	601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
3430	16598	29615	0.64	1.0E-108	AF032897.1	NT	PROTEOGLYCAN II PRECURSOR (HUMAN);
							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
							PROTEOGLYCAN II PRECURSOR (HUMAN);
							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
							PROTEOGLYCAN II PRECURSOR (HUMAN);
							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
							PROTEOGLYCAN II PRECURSOR (HUMAN);
							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
							PROTEOGLYCAN II PRECURSOR (HUMAN);
							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
							PROTEOGLYCAN II PRECURSOR (HUMAN);
							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
							PROTEOGLYCAN II PRECURSOR (HUMAN);
							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
							PROTEOGLYCAN II PRECURSOR (HUMAN);
							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
							PROTEOGLYCAN II PRECURSOR (HUMAN);
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
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							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
							PROTEOGLYCAN II PRECURSOR (HUMAN);
							601671814F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
							PROTEOGLYCAN II PRECURSOR (

Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4273	17418	30406	1.57	1.0E-108	AW664438.1	EST_HUMAN	h12at1.1x1 NCI_CGAP_GLI1 Homo sapiens cDNA clone IMAGE:2972060 3' similar to SW:3BP1_MOUSE
4647	17763	30765	2.62	1.0E-108	U72981.1	NT	P65194 SH-9-BINDING PROTEIN 9BP-1.
4647	17763	30766	2.62	1.0E-108	U72981.1	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
4927	18057	31040	3.37	1.0E-108	7661979	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
5037	18165	31141	0.63	1.0E-108	AW604799.1	EST_HUMAN	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
5063	18191	31166	3.18	1.0E-108	AJ008005.1	NT	U1HF-BN0-sh-e-04-Q-UI.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3080168 5'
5068	18791	31839	1.24	1.0E-108	AW384094.1	EST_HUMAN	Homo sapiens PSN1 gene, alternative transcript
5644	18838	31916	2.56	1.0E-108	BE869016.1	EST_HUMAN	RCO-HT0372-241199-031-03 HT0372 Homo sapiens cDNA
5644	18838	31917	2.56	1.0E-108	BE869016.1	EST_HUMAN	601444822F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 5'
6049	19232	32844	0.68	1.0E-108	AF012623.1	NT	601444822F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 5'
6125	19304	32844	0.74	1.0E-108	BF334881.1	EST_HUMAN	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 20
6267	19441	32789	0.14	1.0E-108	AF264717.1	NT	PM4-CT0403-240700-001-c10 CT0403 Homo sapiens cDNA
6267	19441	32780	0.14	1.0E-108	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
6392	19561	32921	1.22	1.0E-108	AJ133289.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
6489	19804	32844	1.09	1.0E-108	BF334881.1	EST_HUMAN	Homo sapiens caveolin-1/-2 locus, Contig1, D7S622, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
6763	19809	33302	0.64	1.0E-108	AF016708.1	NT	PM4-CT0403-240700-001-c10 CT0403 Homo sapiens cDNA
6763	19809	33303	0.64	1.0E-108	AF016708.1	NT	Homo sapiens E8-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
7308	20390	33890	4.52	1.0E-108	11431867	NT	Homo sapiens E8-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
7597	20667	34143	2.12	1.0E-108	4788333	NT	Homo sapiens G protein-coupled receptor, family G, group 6, member B (GPCR5B), mRNA
7646	20715	34183	1.32	1.0E-108	BE282607.1	EST_HUMAN	Homo sapiens delta-8 fatty acid desaturase (FADS2) mRNA
7674	20739	34218	0.73	1.0E-108	BF528912.1	EST_HUMAN	601113471F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354064 5'
7674	20739	34219	0.73	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCI_CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4181037 5'
8254	21336	34910	1.72	1.0E-108	AF083500.1	NT	602043384F1 NCI_CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4181037 5'
8306	21388	34910	0.61	1.0E-108	AW408694.1	EST_HUMAN	Homo sapiens connective tissue growth factor-like protein precursor, mRNA, complete cds
8306	21388	34911	0.61	1.0E-108	AW408694.1	EST_HUMAN	U1HF-BM0-ads-e-12-Q-UI.1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3082878 5'
9247	22824	36869	0.77	1.0E-108	AF203977.1	NT	U1HF-BM0-ads-e-12-Q-UI.1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3082878 5'
9287	22363	35912	0.46	1.0E-108	N44674.1	EST_HUMAN	Homo sapiens ETS-family transcription factor EHF (EHF) mRNA, complete cds
10847	23880	37500	1.08	1.0E-108	11428155	NT	U1HF-BM0-ads-e-12-Q-UI.1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3082878 5'
							yy65110.1 Soares melanocyte 2Nbr-IM Homo sapiens cDNA clone IMAGE:273283 5' similar to PIR:445773
							A45773 leish protein, long form - fruit fly;
							Homo sapiens similar to high-mobility group (nonhistone chromosomal) protein 4 (H. sapiens) (LOC35446), mRNA

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10904	21037	34549	2.09	1.0E-108	BE535227.1	EST_HUMAN	601058769F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3445361 5'
11066	18501	31637	2.67	1.0E-108	Y12490.1	NT	Homo sapiens mRNA for Golgi-associated microtubule-binding protein (GMAP-210)
11319	24382	38027	1.35	1.0E-108	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11549	24605	38283	3.46	1.0E-108	AW968185.1	EST_HUMAN	EST1378258 MAGE resequences, MAGI Homo sapiens cDNA
11605	24658	38343	1.71	1.0E-108	AV708790.1	EST_HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAEE03 5'
11605	24658	38344	1.71	1.0E-108	AV708790.1	EST_HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAEE03 5'
11652	24731		2.77	1.0E-108	11441485	NT	Homo sapiens G protein-coupled receptor 48 (GPR48), mRNA
11698	15538	28685	2.99	1.0E-108	AI685040.1	EST_HUMAN	1891e10.x1 NCL_CGAP_P128 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE PROTEOGLYCAN II PRECURSOR (HUMAN);
11698	15538	28686	2.99	1.0E-108	AI685040.1	EST_HUMAN	1891e10.x1 NCL_CGAP_P128 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE PROTEOGLYCAN II PRECURSOR (HUMAN);
11712	24752	38448	1.72	1.0E-108	D63639.1	NT	Homo sapiens COL4A6 gene for $\alpha 1(V)$ collagen, exon 23
12490	28344	32084	4.15	1.0E-108	AK024447.1	NT	Homo sapiens mRNA for FLJ00037 protein, partial cds
12940	25518		5.09	1.0E-108	BF346359.1	EST_HUMAN	602018571F1 NCL_CGAP_Bn167 Homo sapiens cDNA clone IMAGE:4154287 5'
43	13281	26287	1.01	1.0E-109	AW803116.1	EST_HUMAN	IL2-UM0077-280400-078-D08 UM0077 Homo sapiens cDNA
66	13303	26328	1.17	1.0E-109	D86974.1	NT	Human mRNA for KIAA0220 gene, partial cds
225	13447	26475	3.34	1.0E-108	11422466	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
235	13456	26482	2.77	1.0E-108	11438391	NT	Homo sapiens reticulocalbin 1, EF-hand calcium binding domain (RCN1), mRNA
479	13674	28705	2.28	1.0E-109	4507712	NT	Homo sapiens tetratricopeptide repeat domain 2 (TTC2) mRNA
611	13800	28820	14.77	1.0E-109	AB023216.1	NT	Homo sapiens mRNA for KIAA0989 protein, partial cds
611	13800	28821	14.77	1.0E-109	AB023216.1	NT	Homo sapiens mRNA for KIAA0989 protein, partial cds
1037	14205	27282	1.62	1.0E-109	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C049
1229	14389	27451	8.5	1.0E-108	M28699.1	NT	Homo sapiens nuclear phosphoprotein B23 (NPM1) mRNA, complete cds
1230	14389	27451	6.38	1.0E-108	M28699.1	NT	Homo sapiens nuclear phosphoprotein B23 (NPM1) mRNA, complete cds
1573	14726	27808	0.99	1.0E-109	BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2859636 5'
1573	14726	27807	0.99	1.0E-109	BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2859636 5'
1923	15086	28170	2.3	1.0E-109	D13643.2	NT	Homo sapiens mRNA for KIAA0018 protein, partial cds
2314	15446	28580	5.46	1.0E-109	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
2325	16457	28599	3.65	1.0E-109	Y1123.1	NT	Homo sapiens SNF5/INI1 gene, exon 6
2687	15807	28923	19.35	1.0E-109	AI022328.1	EST_HUMAN	ow85a01.x1 Soares_fetal_liver spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to TR:002197 002197 CIRCULATING CATHODIC ANTIGEN ;
2687	15807	28924	19.35	1.0E-109	AI022328.1	EST_HUMAN	ow85a01.x1 Soares_fetal_liver spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to TR:002197 002197 CIRCULATING CATHODIC ANTIGEN ;

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2888	15808	28825	2.88	1.0E-109	4504208	NT	Homo sapiens guanylate cyclase activator 1A (retina) (GUCAT1A) mRNA
3125	16301	28314	3.37	1.0E-109	N85190.1	EST_HUMAN	J2816F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J2816 5' similar to ZINC
3475	16842	29661	2.08	1.0E-109	AW893192.1	EST_HUMAN	FINGER PROTEIN ZNF43
3475	16842	29662	2.08	1.0E-109	AW893192.1	EST_HUMAN	CM3-NN0009-180400-150-F10 NN0009 Homo sapiens cDNA
3606	16770	28785	1.1	1.0E-109	AF240588.1	NT	CM3-NN0009-190400-150-F10 NN0009 Homo sapiens cDNA
3945	17104		1.31	1.0E-109	BE146144.1	EST_HUMAN	Homo sapiens retinol dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds
4264	17409	30395	4.35	1.0E-109	AI655417.1	EST_HUMAN	MRO-HT0209-110400-108-a04 HT0209 Homo sapiens cDNA
4624	17663	30650	2.57	1.0E-109	4504208	NT	ts98e09.x1 NC1 CGAP_GC6 Homo sapiens cDNA clone IMAGE:2239330 3' similar to WP-F53A2.8
4722	17857	30839	1.7	1.0E-109	7882083	NT	CE16100 ;
5165	18287	31252	0.72	1.0E-109	BE263673.1	EST_HUMAN	Homo sapiens guanylate cyclase activator 1A (retina) (GUCAT1A) mRNA
5165	18287	31263	0.72	1.0E-109	BE263673.1	EST_HUMAN	Homo sapiens KIAA0377 gene product (KIAA0377), mRNA
5361	18564	31480	0.67	1.0E-109	AU137282.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2859636 5'
5374	18577	31445	0.92	1.0E-109	BF073718.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2859636 5'
5428	18628	31604	2.92	1.0E-109	5174622	NT	AU137282 PLACE1 Homo sapiens cDNA clone PLACE1006159 5'
5724	18917		1.23	1.0E-109	BE179358.1	EST_HUMAN	602136446F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4272922 5'
6080	25817	32556	1.23	1.0E-109	BF379688.1	EST_HUMAN	Homo sapiens placental protein T1 (serine proteinase) (P11) mRNA
6119	18917		1.41	1.0E-109	BE179358.1	EST_HUMAN	RC1-HT0615-200400-022-404 HT0615 Homo sapiens cDNA
6721	19878	33289	0.85	1.0E-109	AU221365.1	EST_HUMAN	GM1-JT0038-060800-398-h07 JT0038 Homo sapiens cDNA
6907	20222	33651	0.69	1.0E-108	11024711	NT	RC1-HT0615-200400-022-404 HT0615 Homo sapiens cDNA
6907	20222	33652	0.69	1.0E-109	11024711	NT	q96h08.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1842111 3'
7388	20487	33633	0.87	1.0E-108	AB046811.1	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
7738	20799	34288	3.75	1.0E-108	11432574	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
7740	20801	34280	4.91	1.0E-109	BF182707.1	EST_HUMAN	Homo sapiens mRNA for KIAA1561 protein, partial cds
8396	21447	34970	1.35	1.0E-109	AL040784.1	NT	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
8480	21561	35098	1.39	1.0E-109	AW749130.1	EST_HUMAN	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
8857	21936		2.84	1.0E-109	AA077408.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
8852	22011	35549	4.36	1.0E-109	BE787540.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
8932	22011	35550	4.36	1.0E-109	BE787540.1	EST_HUMAN	Novel human gene mapping to chromosome 13
9177	22255	35787	0.57	1.0E-109	BE146572.1	EST_HUMAN	PMO-BT0340-091299-002-e05 BT0340 Homo sapiens cDNA
9439	22513	36077	1.65	1.0E-109	H94890.1	EST_HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
							601479417F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3882124 5'
							601479417F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3882124 5'
							IL0-HT0205-071189-142-g01 HT0205 Homo sapiens cDNA
							ye90g08.r1 Scores retina N2b5HR Homo sapiens cDNA clone IMAGE:222110 5' similar to SP-A53491
							AS3481 BUMETANIDE-SENSITIVE NA-K-Cl COTRANSPORTER - SPINY ;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9550	22615	36184	0.64	1.0E-109	BE397038.1	EST_HUMAN	601289760F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3820030 5'
9550	22615	36185	0.64	1.0E-109	BE397038.1	EST_HUMAN	601289760F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3820030 5'
9595	22734	36304	1.37	1.0E-109	FO6804.1	EST_HUMAN	HSC1EC121 normalized infant brain cDNA Homo sapiens cDNA clone c-1ec12
11013	24092	37730	1.8	1.0E-109	BE540909.1	EST_HUMAN	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449599 5'
11013	24092	37731	1.8	1.0E-109	BE540909.1	EST_HUMAN	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449599 5'
11046	24123	37757	19.68	1.0E-109	BF694831.1	EST_HUMAN	602080724F2 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4245341 5'
11387	24448	38109	1.57	1.0E-109	AU121370.1	EST_HUMAN	AU121370 HEMBB1 Homo sapiens cDNA clone HEMBB1002690 5'
11651	24730	38422	2.18	1.0E-109	4502838	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA
11693	24691	38582	4.5	1.0E-109	W16510.1	EST_HUMAN	z608612.f1 Soares fetal lung NBHL19W Homo sapiens cDNA clone IMAGE:301439 5' similar to PIR.S43989 S43989 p54-beta stress-activated protein kinases - rat;
11884	24872	38569	1.84	1.0E-109	BE045560.1	EST_HUMAN	h82305.x1 NCI_CGAP_L124 Homo sapiens cDNA clone IMAGE:2955989 3' similar to TR:Q8Z124 Q8Z124
11948	24934	38638	1.5	1.0E-109	AL119824.1	EST_HUMAN	YGR163W MRNA HOMOLOGUE, COMPLETE CDS.;
11984	24969	38673	1.31	1.0E-109	11418618	NT	DKFZp7611124_1 761 (synonym: ham2) Homo sapiens cDNA clone DKFZp7611124 5'
12126	25106	38810	2.26	1.0E-109	AB007832.1	NT	Homo sapiens single-minded (Drosophila) homolog 1 (SIM1), mRNA
12397	19457	28569	2.32	1.0E-109	Y17123.1	NT	Homo sapiens mRNA for KIAA0463 protein, partial cds
12838	15457	28569	3.2	1.0E-109	Y17123.1	NT	Homo sapiens SNF5/INI1 gene, exon 6
12782	25506	32036	8.36	1.0E-109	AB011398.1	NT	Homo sapiens SNF5/INI1 gene, exon 6
3	13242	26242	1.4	1.0E-110	7549804	NT	Homo sapiens gene for AF-6, complete cds
38	13276	26281	3.96	1.0E-110	5803073	NT	Homo sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA
38	13276	26282	3.96	1.0E-110	5803073	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
112	13242	26242	1.83	1.0E-110	7549804	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
305	13521	26555	1.31	1.0E-110	D87291.1	NT	Homo sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA
640	13733	26767	1.04	1.0E-110	U84550.1	NT	Human mRNA for inward rectifier potassium channel, complete cds
1207	14369	27428	0.89	1.0E-110	5031620	NT	Human dystrobrevin (DTN) gene, exon 20
1308	14484	27632	1.02	1.0E-110	AB032263.1	NT	Homo sapiens calcitonin receptor-like (CALCRL) mRNA
1973	15116	28217	1.51	1.0E-110	BE379477.1	EST_HUMAN	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
2118	18256		1.68	1.0E-110	BF508896.1	EST_HUMAN	601237945F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609669 5'
2803	16081		7.10	1.0E-110	4503098	NT	UHL-B14-acc-b-05-0-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085784 3'
							Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
							Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GAL), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
3150	16331		1.48	1.0E-110	U78027.1	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
3264	16438	29457	2.66	1.0E-110	11436041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
3264	16438	29458	2.66	1.0E-110	11436041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
4320	17463	30449	1.09	1.0E-110	M15918.1	NT	Human autoimmune antigen small nuclear ribonucleoprotein E pseudogene

Table 4

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4758	17893	30872	2.04	1.0E-110	AI017213.1	EST_HUMAN	α32b10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1627863 3' similar to SW:NI121_RAT P52591 NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121 ;
4777	17912	30897	3.01	1.0E-110	AU117812.1	EST_HUMAN	AU117812 HEMBA1 Homo sapiens cDNA clone HEMBA1002241 5'
5088	18216		2.28	1.0E-110	7862441	NT	Homo sapiens KIAA1002 protein (KIAA1002), mRNA
5409	18611	31593	2.23	1.0E-110	BE289406.1	EST_HUMAN	601118710F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028538 5'
5843	19033	32339	0.78	1.0E-110	BE621068.1	EST_HUMAN	601493977F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895795 5'
5860	19050	32356	8.61	1.0E-110	11418323	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
5860	19050	32357	8.61	1.0E-110	11418323	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
6858	25835	33421	5.43	1.0E-110	ME5112.1	NT	Human cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 7
7179	20311	33754	0.59	1.0E-110	BE251496.1	EST_HUMAN	601106388F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3350277 5'
7251	20334	33782	0.85	1.0E-110	U08888.1	NT	Human GS2 gene, exon 2
7251	20334	33783	0.85	1.0E-110	U08888.1	NT	Human GS2 gene, exon 2
7477	20552	34025	0.78	1.0E-110	AI560288.1	EST_HUMAN	6012608.x1 NCI_CGAP_Bim25 Homo sapiens cDNA clone IMAGE:2167407 3' similar to SW:ETV1_HUMAN
7583	20655	34131	16.19	1.0E-110	AV714276.1	EST_HUMAN	P60549 ETS TRANSLOCATION VARIANT 1 ;
7583	20655	34132	16.19	1.0E-110	AV714276.1	EST_HUMAN	AV714276 DCB Homo sapiens cDNA clone DCBCE01 5'
7613	20883	34159	2.87	1.0E-110	AB020675.1	NT	AV714276 DCB Homo sapiens cDNA clone DCBCE01 5'
7743	20804	34283	0.86	1.0E-110	AU137823.1	EST_HUMAN	Homo sapiens mRNA for KIAA0868 protein, partial cds
9536	22801	36174	1.09	1.0E-110	BE302594.1	EST_HUMAN	AU137823 PLACE1 Homo sapiens cDNA clone PLACE1007511 5'
9777	22817	36396	2.46	1.0E-110	AW638394.1	EST_HUMAN	668801.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2905561 5' similar to TR:O77258 O77258
10529	23564	37171	3.38	1.0E-110	114932732	NT	EG-114D9.2 PROTEIN ;
10886	24065	37700	3.2	1.0E-110	Y12337.1	NT	QV2-L-T0059-020400-119-04 LT0053 Homo sapiens cDNA
11209	24278	37816	3.64	1.0E-110	BE734357.1	EST_HUMAN	Homo sapiens galactokinase 2 (GALK2), mRNA
11209	24278	37817	3.64	1.0E-110	BE734357.1	EST_HUMAN	H sapiens mRNA for myotonic dystrophy protein kinase like protein
11608	24661	38347	1.89	1.0E-110	M10051.1	NT	601665604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
11728	23914	37539	1.7	1.0E-110	AA448528.1	EST_HUMAN	601665604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
12211	25164		2.47	1.0E-110	BE887218.1	EST_HUMAN	Human insulin receptor mRNA, complete cds
12941	25246		2.86	1.0E-110	AW062268.1	EST_HUMAN	2467602.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781298 5' similar to TR:G1145816
12994	25400		2.98	1.0E-110	AB011399.1	NT	G1145816 FGP94 ;
12748	26113		6.01	1.0E-110	BF384546.1	EST_HUMAN	601439784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3824548 5'
13071	15256		1.16	1.0E-110	BF608836.1	EST_HUMAN	LD-BT0163-040899-094-g10 BT0163 Homo sapiens cDNA
179	13402		11.92	1.0E-111	U45701.1	NT	Homo sapiens gene for AF-6, complete cds
							Human ribosomal protein L23a mRNA, complete cds

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
201	13424	26455	1.64	1.0E-111	4758807	NT	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
753	13934		1.99	1.0E-111	BF035327.1	EST_HUMAN	601458631F1 NIH_MGC 68 Homo sapiens cDNA clone IMAGE:3862086 5'
762	13943	26889	4.13	1.0E-111	8303092	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
950	14123	27185	2.5	1.0E-111	M26142.1	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
4266	17431	30419	1.15	1.0E-111	7861569	NT	Human cardiac alpha-myosin heavy chain (MYH6) gene, exons 32 to 34
4449	17589	30570	4.59	1.0E-111	K02268.1	NT	Homo sapiens DKFZP434D156 protein (DKFZP434D156), mRNA
5593	18788	31835	0.75	1.0E-111	AA151017.1	EST_HUMAN	Human antipain B (antB) gene, exon 4 and 3' flank and complete cds
5693	18788	31836	0.75	1.0E-111	AA151017.1	EST_HUMAN	z47007.1 Soares_pregnant_uterus_NIHPU Homo sapiens cDNA clone IMAGE:505045 5' similar to gb:M22575 PREGNANCY-SPECIFIC BETA-1 GLYCOPROTEIN C PRECURSOR (HUMAN);
5749	18941	32242	0.88	1.0E-111	BE807908.1	EST_HUMAN	gb:M22575 PREGNANCY-SPECIFIC BETA-1 GLYCOPROTEIN C PRECURSOR (HUMAN);
5802	19052	32369	0.86	1.0E-111	U19869.1	NT	gb:M22575 PREGNANCY-SPECIFIC BETA-1 GLYCOPROTEIN C PRECURSOR (HUMAN);
6156	19332	32678	2.08	1.0E-111	A1344679.1	EST_HUMAN	Human two-handed zinc finger protein ZEB mRNA, partial cds
6818	19871	33379	0.98	1.0E-111	ALD40762.1	EST_HUMAN	qp09g12.x1 NCI_CGAP_Kid1 Homo sapiens cDNA clone IMAGE:1917574 3' similar to gb:M22868 RAS-RELATED PROTEIN RAL-A (HUMAN);
6945	20258	33687	1.31	1.0E-111	AW284648.1	EST_HUMAN	DKFZp434G1815.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434G1815 5'
7605	20676	34149	3.04	1.0E-111	BF366228.1	EST_HUMAN	U1H-BW0-aid-03-0-JJ.s1 NCI_CGAP_Sub66 Homo sapiens cDNA clone IMAGE:2726525 3'
7704	20769	34254	0.7	1.0E-111	AI761228.1	EST_HUMAN	IL2-NT0101-280700-114-E03 NT0101 Homo sapiens cDNA
7791	20847	34340	0.83	1.0E-111	U80017.1	NT	w68d01.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2398465 3' similar to gb:J04813
8286	21368	34888	0.8	1.0E-111	AA278888.1	EST_HUMAN	CYTOTOXIC P450 IIIA5 (HUMAN);
8286	21368	34889	0.8	1.0E-111	AA278888.1	EST_HUMAN	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (nabp) and survival motor neuron protein (smn) genes, complete cds
8383	21464	34989	0.83	1.0E-111	U80017.1	NT	z578g03.1 NCI_CGAP_GC81 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR:G1256410
8435	21516	35047	3.56	1.0E-111	U86633.1	NT	G1256410 11-ZINC-FINGER TRANSCRIPTION FACTOR ;
8878	21957	35402	0.96	1.0E-111	11420516	NT	z578g03.1 NCI_CGAP_GC81 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR:G1256410
8975	22054	35597	0.84	1.0E-111	AK024453.1	EST_HUMAN	G1256410 11-ZINC-FINGER TRANSCRIPTION FACTOR ;
9008	22087	35708	8.43	1.0E-111	X17033.1	NT	Homo sapiens protein x 0001 (LOC51185), mRNA
9085	22164	35709	15.93	1.0E-111	X17033.1	NT	Homo sapiens protein x 0001 (LOC51185), mRNA
9289	22395	35914	3.37	1.0E-111	AF081365.1	EST_HUMAN	Human beta-4-integrin (ITGB4) gene, exon 13
9518	22593	36152	0.54	1.0E-111	BF333210.1	EST_HUMAN	Homo sapiens nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10355	23380	37000	1.56	1.0E-111	AA504180.1	EST_HUMAN	aa504180.1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:825170 3' similar to gb:U09235
10383	23418		1.04	1.0E-111	D10083.1	NT	VACUOLAR ATP SYNTHASE CATALYTIC SUBUNIT A, UBIQUITOUS (HUMAN);
10479	23514	37127	5.58	1.0E-111	AA131248.1	EST_HUMAN	Homo sapiens RGH1 gene, retrovirus-like element
10995	24074	37707	1.34	1.0E-111	AW286487.1	EST_HUMAN	ZB1F01.1 Soares_pregnant_uterus_Nb1FPU Homo sapiens cDNA clone IMAGE:503545 5'
11289	24365	38006	3.29	1.0E-111	U68159.1	NT	UI-H-BWO-ek-0-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:2730276 3'
12167	25130	38828	4.07	1.0E-111	11417801	NT	Human thrombopoietin receptor (MPL) gene, exons 1,2,3,4,5 and 8
12741	25492	32029	4.72	1.0E-111	AV708482.1	EST_HUMAN	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MNI1), mRNA
12881	25888	31855	4.82	1.0E-111	W22682.1	EST_HUMAN	AV708482 ADC Homo sapiens cDNA clone ADCAOB08 5'
13041	18504	31539	1.27	1.0E-111	AB035358.1	NT	72C9 Human retina cDNA Tap5081-cleaved sublibrary Homo sapiens cDNA not directional
623	13808	26829	2.77	1.0E-112	4501854	NT	Homo sapiens mRNA for neuraminidase protein, complete cds
625	13810	26831	4.84	1.0E-112	U29103.1	NT	Homo sapiens mRNA for neuraminidase protein (SIAR) gene, exon 5
625	13810	26832	4.84	1.0E-112	U29103.1	NT	Human steroidogenic acute regulatory protein (SIAR) gene, exon 5
649	13834	26860	1.82	1.0E-112	BF509039.1	EST_HUMAN	Human steroidogenic acute regulatory protein (SIAR) gene, exon 5
649	13834	26861	1.82	1.0E-112	BF509039.1	EST_HUMAN	UIH-B14-act-g-04-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
1026	14197	27255	33.08	1.0E-112	AF157623.1	NT	UIH-B14-act-g-04-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
1087	14293	27308	1.49	1.0E-112	P52742	SWISSPROT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
1716	14888	27958	7.1	1.0E-112	7682125	NT	ZINC FINGER PROTEIN 135
1718	14888	27958	7.1	1.0E-112	7682125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
1863	15009	28115	1.11	1.0E-112	AF248540.1	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2577	15703	28823	2.83	1.0E-112	BE806559.1	EST_HUMAN	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
3147	16323		0.76	1.0E-112	4504116	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
3444	16612	28630	0.61	1.0E-112	AI826511.1	EST_HUMAN	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
3690	17147	30153	0.63	1.0E-112	BE076073.1	EST_HUMAN	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
4726	17861	30843	0.68	1.0E-112	4504116	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
4875	18007	30981	5.87	1.0E-112	AB037832.1	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
5784	18976	32282	36.7	1.0E-112	NA60446.1	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6201	19376	32727	1.33	1.0E-112	AF148773.1	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6273	19447	32706	0.66	1.0E-112	AW502437.1	EST_HUMAN	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6379	19548	32804	0.93	1.0E-112	BE741688.1	EST_HUMAN	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6588	19749	33132	0.7	1.0E-112	BF672815.1	EST_HUMAN	Homo sapiens KIAA0440 protein (KIAA0440), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6773	19928	33323	0.83	1.0E-112	BE273103.1	EST_HUMAN	601142755F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3508508 5'
6773	19928	33324	0.83	1.0E-112	BE273103.1	EST_HUMAN	601142755F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3508508 5'
6981	20209	33637	1.51	1.0E-112	BF574235.1	EST_HUMAN	602131405F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4270921 5'
7305	20387	33847	0.68	1.0E-112	AL043299.1	EST_HUMAN	DKFZp434M0323_J1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434M0523 5'
7491	20568	34037	1.49	1.0E-112	11416777	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
7491	20568	34038	1.49	1.0E-112	11416777	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
8387	21488	34985	1.79	1.0E-112	AU118051.1	EST_HUMAN	AU118051 HEMBA1 Homo sapiens cDNA clone HEMBA1002773 5'
9158	22236	35781	2.64	1.0E-112	BE867635.1	EST_HUMAN	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
9158	22236	35782	2.64	1.0E-112	BE867635.1	EST_HUMAN	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
10097	23135	36736	2.37	1.0E-112	BF111413.1	EST_HUMAN	730g07.x1 Soares NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3523020 3' similar to
11017	24096	37735	16.73	1.0E-112	AW863327.1	EST_HUMAN	TR:Q9VW35 Q9VW35 CQ36743 PROTEIN;
11103	24175	37810	1.31	1.0E-112	T83987.1	EST_HUMAN	MF3-SN0009-100400-106-b12 SN0009 Homo sapiens cDNA
11103	24175	37811	1.31	1.0E-112	T83987.1	EST_HUMAN	y56d10.s1 Soares fetal liver spleen 1NFSL Homo sapiens cDNA clone IMAGE:112243 3' similar to
11191	24260	37896	3.14	1.0E-112	AJ249000.1	NT	SP-C40H1.1 CE00109 OVARIAN PROTEIN;
11359	24421	38077	2.24	1.0E-112	BE280479.1	EST_HUMAN	Homo sapiens mRNA for secreted modular calcium-binding protein (smoc1 gene)
11428	24489	38153	2.28	1.0E-112	A1782803.1	EST_HUMAN	601155323F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138989 5'
11428	24489	38154	2.28	1.0E-112	A1782803.1	EST_HUMAN	qk24c08.y6 NCL_CGAP_Kd3 Homo sapiens cDNA clone IMAGE:1868902 5' similar to TR:Q64362 Q64362
11460	24519	38188	4.76	1.0E-112	AW377670.1	EST_HUMAN	FUSED TOES;
12096	25076	38783	1.68	1.0E-112	A1782803.1	EST_HUMAN	PMO-CT0237-141089-001-02 CT0237 Homo sapiens cDNA
12096	25076	38784	1.68	1.0E-112	A1782803.1	EST_HUMAN	qk24c08.y6 NCL_CGAP_Kd3 Homo sapiens cDNA clone IMAGE:1868902 5' similar to TR:Q64362 Q64362
12727	25484	26987	1.31	1.0E-112	AF106858.1	NT	FUSED TOES;
761	13942	26987	6.82	1.0E-113	A1365593.1	EST_HUMAN	Homo sapiens adenylosuccinate lyase gene, complete cds
761	13942	26988	6.82	1.0E-113	A1365593.1	EST_HUMAN	ac858701.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1853625 3'
865	14138	27109	2.03	1.0E-113	M11965.1	NT	ac858701.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1853625 3'
1572	14725	27805	3.23	1.0E-113	A1365593.1	EST_HUMAN	Human X-linked phosphoglycerate kinase gene, exon 8
							ac858701.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1853625 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1893	15894	28240	1.63	1.0E-113	AF240775.1	NT	Homo sapiens eIF4E-transporter mRNA, complete cds
2161	15287	28422	1.49	1.0E-113	BF15218.1	EST_HUMAN	UHH-BW1-ent4-03-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082876 3'
3200	16375	28385	2.06	1.0E-113	AJ223948.1	NT	Homo sapiens mRNA for putative RNA helicase, 3' end
5178	18300	31263	36.66	1.0E-113	5453562	NT	Homo sapiens activating transcription factor B (B-ATF), mRNA
5178	18300	31264	36.66	1.0E-113	5453562	NT	Homo sapiens activating transcription factor B (B-ATF), mRNA
5359	25930		2.4	1.0E-113	BE780858.1	EST_HUMAN	601469465F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872536 5'
5610	18805	31870	6.37	1.0E-113	AU127214.1	EST_HUMAN	AU127214 NT2RP2 Homo sapiens cDNA clone NT2RP2000807 5'
6045	19228	32552	3.64	1.0E-113	AU140291.1	EST_HUMAN	AU140291 PLACE2 Homo sapiens cDNA clone PLACE2000274 5'
6072	18264	32583	1.02	1.0E-113	AF016635.1	NT	Homo sapiens P-glycoprotein (MDR1) mRNA, complete cds
							Homo sapiens UDP-N-acetyl-alpha-D-galactosamine polypeptide N-acetyl-galactosaminyltransferase 8 (GalNAc-T8) (GALNT8), mRNA
6185	19371	32722	2.57	1.0E-113	11525737	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B, mRNA
6285	19458	32809	0.8	1.0E-113	9961249	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B, mRNA
6285	19458	32810	0.8	1.0E-113	9961249	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B, mRNA
6446	19613	32876	0.88	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
6446	19613	32877	0.88	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
7474	20549	34021	0.63	1.0E-113	BE262161.1	EST_HUMAN	601152078F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3608362 5'
7474	20549	34022	0.63	1.0E-113	BE262161.1	EST_HUMAN	601152078F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3608362 5'
9083	22172	35117	0.3	1.0E-113	8922819	NT	Homo sapiens hypothetical protein FLJ11008 (FLJ11008), mRNA
9286	22372	35921	2.91	1.0E-113	BE382842.1	EST_HUMAN	601297709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3627554 5'
9286	22372	35922	2.91	1.0E-113	BE382842.1	EST_HUMAN	601297709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3627554 5'
9601	22656		0.62	1.0E-113	BE772967.1	EST_HUMAN	RC1-FT0134-280600-071-002 FT0134 Homo sapiens cDNA
10036	23074	36674	1.27	1.0E-113	11429367	NT	Homo sapiens transmembrane protein 2 (TMEM2), mRNA
10256	23291	36888	1.01	1.0E-113	5453397	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10256	23291	36889	1.01	1.0E-113	5453397	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10842	23876	37495	0.47	1.0E-113	AW500517.1	EST_HUMAN	U1-HF-BNO-akb-10-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077322 5'
11385	24446	38107	1.89	1.0E-113	AW500519.1	EST_HUMAN	U1-HF-BNO-akb-12-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077326 5'
							h81a09.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2868176 5' similar to TR:060327 O60327
							KIAA0594 PROTEIN :
11396	24457	38119	5.42	1.0E-113	AW630291.1	EST_HUMAN	h81a09.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2868176 5' similar to TR:060327 O60327
11396	24457	38120	6.42	1.0E-113	AW630291.1	EST_HUMAN	KIAA0594 PROTEIN :
11540	24636	38272	2.91	1.0E-113	BE262988.1	EST_HUMAN	601106529F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988366 5'
59	13297	26314	0.75	1.0E-114	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
59	13297	26315	0.75	1.0E-114	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
59	13297	26316	0.75	1.0E-114	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
662	13648	26876	7.46	1.0E-114	T70551.1	EST_HUMAN	yt16c01.a1 Sources fetal liver spleen 1NFLS Homo sapiens cDNA IMAGE:108288 3' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN); contains Alu repetitive element
1098	14261	27318	2.64	1.0E-114	8023087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1341	14407	27569	4.65	1.0E-114	7857529	NT	Homo sapiens thalidomide tumor deletion region protein 1 (RTDR1), mRNA
1673	14825	27809	1.9	1.0E-114	6631094	NT	Homo sapiens mitochondrial maintenance deficient (S. cerevisiae) 3 (MCM3), mRNA
1706	14858	27845	5.08	1.0E-114	6679073	NT	Homo sapiens nucleoporin-like protein 1 (NLP_1), mRNA
2145	15281	28406	2.52	1.0E-114	BE171894.1	EST_HUMAN	MFO-HT0559-250200-002-007 HT0559 Homo sapiens cDNA
2330	15462	28595	0.99	1.0E-114	AB002374.1	NT	Human mRNA for KIAA0376 gene, partial cds
2865	13283	26280	0.6	1.0E-114	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
2865	13283	26291	0.6	1.0E-114	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3201	16376	29386	2.6	1.0E-114	X04080.1	NT	Human gene for cathepsin (EC 1.11.1.9) exon 2 mapping to chromosome 11, band p13
3240	16414	29429	1.03	1.0E-114	BF206374.1	EST_HUMAN	60186932F1 NIH_MGC_10 Homo sapiens cDNA IMAGE:4100214 5'
4124	17278	30275	3.27	1.0E-114	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
4510	17849	30637	0.7	1.0E-114	J03171.1	NT	Human Interferon-alpha receptor (HuIFN-alpha-Rc) mRNA, complete cds
5282	18401	31370	1.1	1.0E-114	AW294203.1	EST_HUMAN	UHH-B12-cho-d01-QULs1 NCI_CGAP_Sub4 Homo sapiens cDNA IMAGE:2728424 3'
6516	18714	31727	1.88	1.0E-114	4506980	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
5516	18714	31728	1.88	1.0E-114	4506980	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
5712	18805	32200	0.9	1.0E-114	9257201	NT	Homo sapiens clathrin, heavy polypeptide-like 1 (CLTCL1), transcript variant 2, mRNA
7224	20088	33931	0.71	1.0E-114	AB041633.1	NT	Homo sapiens HCMOGT-1 mRNA for sperm antigen, complete cds
7388	20466	33931	1.09	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7388	20466	33932	1.09	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7434	20511	33983	8.2	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
7434	20511	33984	8.2	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
8075	21157	34675	1.94	1.0E-114	4557600	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2) mRNA
8360	21441	34963	1.85	1.0E-114	AI933139.1	EST_HUMAN	q68d06.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2017163 8'
8360	21441	34964	1.85	1.0E-114	AI933139.1	EST_HUMAN	q68d06.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2017163 3'
8898	21977	35516	2.99	1.0E-114	U83041.1	NT	Human neural cell adhesion molecule CD56 mRNA, complete cds
8966	22045	35589	5.81	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
8966	22045	35590	5.81	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9384	22459	36022	0.87	1.0E-114	BF106832.1	EST_HUMAN	708g12.x1 Soares_NSF_FB_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3526847 3' similar to
9814	22669		1.3	1.0E-114	AW327455.1	EST_HUMAN	TR-09UH6 Q8UH6 TRANSMEMBRANE PROTEIN 2 ;
9662	21104	34821	2.67	1.0E-114	AF077754.1	NT	dq3305.x1 NIH_MGC_2 Homo sapiens cDNA clone IMAGE:2846744 5'
9748	22812		1.36	1.0E-114	M13536.1	NT	Homo sapiens tyrosine Kinase pp60c-src (SRC) gene, exon 12 and partial cds
10343	23378	36989	1.02	1.0E-114	BE870004.1	EST_HUMAN	Human ceruloplasmin mRNA
10384	23399	37010	1.11	1.0E-114	AL163227.2	NT	601449752F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3853500 5'
10762	23795	37415	1.18	1.0E-114	BE171984.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C027
							MRO-HT0559-260200-002-d07 HT0559 Homo sapiens cDNA
							ba73g12.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2906086 5' similar to gb:X17206 40S
11027	24106		4.31	1.0E-114	BE302688.1	EST_HUMAN	RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mouse LLRep3 protein mRNA from a repetitive element, complete (MOUSE);
11466	24525	38197	8.11	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cdABA08 5'
11466	24525	38198	8.11	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cdABA08 5'
11842	24831	38522	6.28	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cdABA08 5'
11842	24831	38523	6.28	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cdABA08 5'
12643	26187		4.63	1.0E-114	11418041	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
12836	25616	31975	2.75	1.0E-114	11034850	NT	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA
12836	25616	31976	2.75	1.0E-114	11034850	NT	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA
24	13282	26284	3.06	1.0E-115	4758111	NT	Homo sapiens HLA-B associated transcript-1 (D6S81E) mRNA
132	13358	26391	1.09	1.0E-115	4505838	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
136	13362		18.42	1.0E-115	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
303	13519	26552	2.02	1.0E-115	AW804750.1	EST_HUMAN	QV4JUM0094-300300-156-508 UM0094 Homo sapiens cDNA
							q0901.x1 NCI_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1946809 3' similar to TR-O00538 O00538
649	13742	26766	1.69	1.0E-115	AI339206.1	EST_HUMAN	TTF-1 INTERACTING PEPTIDE 6 ;
							q0901.x1 NCI_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1946809 3' similar to TR-O00538 O00538
649	13742	26767	1.69	1.0E-115	AI339206.1	EST_HUMAN	TTF-1 INTERACTING PEPTIDE 6 ;
809	13988	27041	3	1.0E-115	5174702	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
809	13988	27042	3	1.0E-115	5174702	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
811	13990	27044	15.24	1.0E-115	4503704	NT	Homo sapiens ferritin, heavy polypeptide 1 (FTH1) mRNA
1590	14742	27823	1.15	1.0E-115	AF229180.1	NT	Homo sapiens alpha-aminoacidipate semialdehyde synthase mRNA, complete cds
1590	14742	27824	1.15	1.0E-115	AF229180.1	NT	Homo sapiens alpha-aminoacidipate semialdehyde synthase mRNA, complete cds
							Homo sapiens Bruton's tyrosine Kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
1888	15032	28140	1.31	1.0E-115	U78027.1	NT	Homo sapiens Bruton's tyrosine Kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2142	15278	28400	1.13	1.0E-115	BE745469.1	EST_HUMAN	601578838F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928832 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2142	15278	28401	1.13	1.0E-115	BE745469.1	EST_HUMAN	60157838F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928832 5'
2150	15286	28411	1.1	1.0E-115	AB007802.1	NT	Homo sapiens KIAA0442 mRNA, partial cds
2374	15505	28631	1.11	1.0E-115	AF231124.1	NT	Homo sapiens testican-1 mRNA, complete cds
2912	16090		1.03	1.0E-115	AW604759.1	EST_HUMAN	QV4-JM0094-300300-158-b08 UM0094 Homo sapiens cDNA
3184	16359	29365	2.88	1.0E-115	AJ245922.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
3184	16359	29366	2.88	1.0E-115	AJ245922.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
3561	16726	29742	1.8	1.0E-115	AJ277892.1	NT	Homo sapiens partial TTN gene for titin
4153	17305	30299	4.2	1.0E-115	AB002349.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
4521	17660	30647	2.49	1.0E-115	6912659	NT	Homo sapiens sir2-like 3 (SIRT3), mRNA
4557	17695	30674	4.28	1.0E-115	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
4797	17932	30918	2.86	1.0E-115	AL098857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4797	17932	30919	2.86	1.0E-115	AL098857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
6028	18155	31132	2.99	1.0E-115	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C088
6028	18155	31133	2.89	1.0E-115	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C088
5044	18172	31149	1.01	1.0E-115	Y19215.1	NT	Homo sapiens putative psfHHC pseudogene for hair keratin, exons 1 to 9
5304	18421	31391	1.23	1.0E-115	4504658	NT	Homo sapiens interlucidin 1 receptor, type I (ILIR1) mRNA
5347	18460	31425	0.92	1.0E-115	AB018311.1	NT	Homo sapiens mRNA for KIAA0768 protein, partial cds
5463	18663	31642	2.8	1.0E-115	AW970335.1	EST_HUMAN	EST382410 IMAGE resequences, MAGK Homo sapiens cDNA
5540	18737	31754	0.97	1.0E-115	BF663387.1	EST_HUMAN	60219346F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4276738 5'
5859	18853	32136	1.74	1.0E-115	11425128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mRNA
5859	18853	32137	1.74	1.0E-115	11425128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mRNA
5808	18998	32304	1.15	1.0E-115	AI928799.1	EST_HUMAN	au84g01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518588 3' similar to gb:U07807
5808	18998	32305	1.15	1.0E-115	AI928799.1	EST_HUMAN	au84g01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518588 3' similar to gb:U07807
6391	19560	32919	0.68	1.0E-115	11426783	NT	Homo sapiens sperm surface protein (HSS), mRNA
6391	19560	32920	0.68	1.0E-115	11426783	NT	Homo sapiens sperm surface protein (HSS), mRNA
6525	19690	33034	9.49	1.0E-115	11426038	NT	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC33436), mRNA
6658	19817	33204	1.68	1.0E-115	7661883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
6658	19817	33205	1.68	1.0E-115	7661883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
7074	20127	33543	0.75	1.0E-115	T86774.1	EST_HUMAN	y885b08.r1 Soares fetal liver spleen TINF3 Homo sapiens cDNA clone IMAGE:115098 5' similar to
7428	20505	33975	1.24	1.0E-115	AI076598.1	EST_HUMAN	SP-DPOG_YEAST P15801 DNA POLYMERASE GAMMA :
7428	20505	33976	1.24	1.0E-115	AI076598.1	EST_HUMAN	alpha231a08.x1 Soares fetal spleen TINF3 Homo sapiens cDNA clone IMAGE:1676814 3'
7428	20505	33976	1.24	1.0E-115	AI076598.1	EST_HUMAN	alpha231a08.x1 Soares fetal spleen TINF3 Homo sapiens cDNA clone IMAGE:1676814 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7246	20329	33775	1	1.0E-118	AL043761.1	EST_HUMAN	DKFZp43400127.1 434 (synonym: hte3) Homo sapiens cDNA clone DKFZp43400127.5
7776	20833	34324	4.7	1.0E-118	11431050	NT	Homo sapiens chromosome 2 open reading frame 3 (C2ORF3), mRNA
7780	20846	34339	0.72	1.0E-118	L46500.1	NT	Homo sapiens very long chain acyl-CoA dehydrogenase gene, exons 1-20, complete cds
8159	21241	34761	1.95	1.0E-118	BE781223.1	EST_HUMAN	601469169F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872247.5
8577	21658	35198	7	1.0E-118	BE062855.1	EST_HUMAN	QV0-BT0263-090200-097-H03 BT0263 Homo sapiens cDNA
8577	21658	35198	7	1.0E-118	BE062855.1	EST_HUMAN	QV0-BT0263-090200-097-H03 BT0263 Homo sapiens cDNA
8683	21684	35204	1.1	1.0E-118	AA443024.1	EST_HUMAN	z88d07.1 Soares NIHMFU_S1 Homo sapiens cDNA clone IMAGE:811789.5
8683	21684	35205	1.1	1.0E-118	AA443024.1	EST_HUMAN	z88d07.1 Soares NIHMFU_S1 Homo sapiens cDNA clone IMAGE:811789.5
8873	21952	35488	0.94	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
8873	21952	35489	0.94	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
8918	21997	35536	1.94	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8918	21997	35537	1.94	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
9238	22343	35855	5.15	1.0E-118	BE263134.1	EST_HUMAN	601144863P2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160502.5
9268	22313	35894	0.55	1.0E-118	AL048474.2	EST_HUMAN	DKFZp588K1824.1 588 (synonym: hube1) Homo sapiens cDNA clone DKFZp588K1824
9782	22832	36411	1.07	1.0E-118	7657016	NT	Homo sapiens hypothetical protein (DJ28E19.G1.1), mRNA
10541	23676	37184	1.23	1.0E-118	BE736213.1	EST_HUMAN	601307146F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3641603.5
10541	23676	37185	1.23	1.0E-118	BE736213.1	EST_HUMAN	601307146F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3641603.5
10588	23621	37228	1.75	1.0E-118	BF195407.1	EST_HUMAN	7n17e08.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:3584785.3 similar to SW_ZP3A_HUMAN
10752	23785	37399	0.59	1.0E-118	AW286351.1	EST_HUMAN	P21754 ZONA PELLUCIDA SPERM-BINDING PROTEIN 3A PRECURSOR ;
						EST_HUMAN	UJ-H-BW0-ec-e-07-0-JLs1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2728772.3
11555	24610	38290	3.75	1.0E-118	AA315007.1	EST_HUMAN	EST188814 HGC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to dynein, light chain 1, cytoplasmic
11855	24843	38539	2.92	1.0E-118	BE908876.1	EST_HUMAN	601469514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563.5
11855	24843	38540	2.92	1.0E-118	BE908876.1	EST_HUMAN	601469514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563.5
12071	25052	38761	1.81	1.0E-118	BE218235.1	EST_HUMAN	h96a06.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3175474.3 similar to TR-Q9Z2H4
776	19558	27007	2.48	1.0E-119	AF170492.1	NT	Q82Z2H4 G PROTEIN-COUPLED RECEPTOR LGRA. ;
1062	16029	27284	0.83	1.0E-119	7705807	NT	Homo sapiens chloride channel ClO4 (ClC4) mRNA, complete cds
1987	15129	28232	2.86	1.0E-119	AB023147.1	NT	Homo sapiens CG1-105 protein (LOC31011), mRNA
3171	16346	29353	1.01	1.0E-119	8922025	NT	Homo sapiens mRNA for KIAA0930 protein, partial cds
						EST_HUMAN	Homo sapiens hypothetical protein FLJ10052 (FLJ10052), mRNA
						EST_HUMAN	on10605.e1 NCI_CGAP_Lu6 Homo sapiens cDNA clone IMAGE:1566241.3 similar to WP-E04F6.2
3312	16485		2.17	1.0E-119	AA916760.1	EST_HUMAN	CE01214 ;
4063	17219	30227	1.22	1.0E-119	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
5453	18653	31632	3.96	1.0E-119	AU133393.1	EST_HUMAN	AU133399 NT2RP4 Homo sapiens cDNA clone NT2RP4001901.5

Table 4
Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6498	18698	31645	15.48	1.0E-119	M89914.1	NT	Human neurofibromin (NF1) gene, complete cds
5470	18670	31650	3.29	1.0E-119	BE938121.1	EST_HUMAN	RC1-NN0073-250800-018-g08 NN0073 Homo sapiens cDNA
5550	18747	31782	1.81	1.0E-119	AV693731.1	EST_HUMAN	AV693731 GKGC Homo sapiens cDNA clone GKCDH803 5'
5707	18900	32184	0.86	1.0E-119	AL134903.1	EST_HUMAN	DKFZp762M0710.1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762M0710 5'
5707	18900	32185	0.86	1.0E-119	AL134903.1	EST_HUMAN	DKFZp762M0710.1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762M0710 5'
6255	19428	32775	6.7	1.0E-119	AI150703.1	EST_HUMAN	qb77c09.x1 Soares_fetal_NbH119W Homo sapiens cDNA clone IMAGE:1700126 3' similar to SW_K1CJ_MOUSE_P02535 KERATIN, TYPE I CYTOSKELETAL 10;
6414	19583	32944	0.71	1.0E-119	AF315683.1	NT	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds
6414	19583	32945	0.71	1.0E-119	AF315683.1	NT	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds
6461	19628	32989	1.22	1.0E-119	AI476732.1	EST_HUMAN	hm23f10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2157451 3'
6589	19750	33133	2.39	1.0E-119	X06292.1	NT	Human c-fes/fps proto-oncogene
6601	19761	33149	4.01	1.0E-119	AW974193.1	EST_HUMAN	EST3868286 IMAGE resequences, MAGM Homo sapiens cDNA
7688	20640	34116	1.09	1.0E-119	BE796514.1	EST_HUMAN	601592005F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946081 5'
8662	21041	35476	0.93	1.0E-119	BE515150.1	EST_HUMAN	601280584F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3822526 5'
8657	22936	36592	0.46	1.0E-119	11945921	NT	Homo sapiens melanoma differentiation associated protein-5 (MDA5), mRNA
10111	23149	36750	0.96	1.0E-119	11036643	NT	Homo sapiens KIAA0477 gene product (KIAA0477), mRNA
10311	23346	36952	0.61	1.0E-119	AI149798.1	EST_HUMAN	qf43a11.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1782764 3' similar to TR-Q13458
10452	23437	37095	2.29	1.0E-119	AA465124.1	EST_HUMAN	Q13468 GUANINE NUCLEOTIDE EXCHANGE FACTOR PROTEIN TRIO.1
10722	23755	37361	1.13	1.0E-119	AJ297701.1	NT	sa32805.t1 NCI_CGAP_GC81 Homo sapiens cDNA clone IMAGE:814977 5'
10766	23769	37420	0.77	1.0E-119	11425837	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
10768	23789	37421	0.77	1.0E-119	11425837	NT	Homo sapiens hypothetical protein FLJ10208 (FLJ10208), mRNA
10844	23877	37497	0.59	1.0E-119	BE561987.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ10208 (FLJ10208), mRNA
10849	23882	37602	0.73	1.0E-119	AB032281.1	NT	601347180F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3687887 5'
11308	24373	38015	1.58	1.0E-119	AJ297701.1	NT	Homo sapiens Sod mRNA for stearyl-CoA desaturase, complete cds
11308	24373	38016	1.58	1.0E-119	AJ297701.1	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
11479	24538		6.82	1.0E-119	BF569571.1	EST_HUMAN	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
12490	26038		5.48	1.0E-119	AW847519.1	EST_HUMAN	602188072F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310633 5'
12845	25882		3.03	1.0E-119	X86211.1	NT	RC3-CT0212-240889-011-f05 G10212 Homo sapiens cDNA
247	13468	28500	0.68	1.0E-120	AB018301.1	NT	H.sapiens DNA for endogenous retroviral like element
312	13528	28561	0.97	1.0E-120	4507334	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
1068	14232	27280	2.74	1.0E-120	AF248540.1	NT	Homo sapiens synaptobrevin 1 (SYN1), mRNA
1066	14232	27291	2.74	1.0E-120	AF248540.1	NT	Homo sapiens intersecin 2 (SHSD1B) mRNA, complete cds
1456	14609	27689	3.26	1.0E-120	N44873.1	EST_HUMAN	Homo sapiens intersecin 2 (SHSD1B) mRNA, complete cds
							y40g12.t1 Soares melanocyte 2Nbl-HM Homo sapiens cDNA clone IMAGE:273768 5'

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1631	14783	27869	11.19	1.0E-120	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1649	14995	28098	5.58	1.0E-120	4557260	NT	Homo sapiens disintegrin and metalloprotease domain 10 (ADAM10) mRNA
2174	16309	28437	1.60	1.0E-120	AB011399.1	NT	Homo sapiens gene for AF-8, complete cds
2174	16309	28438	1.83	1.0E-120	AB011399.1	NT	Homo sapiens gene for AF-8, complete cds
3382	13528	28561	1.61	1.0E-120	4507334	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
4477	17617	30598	2.05	1.0E-120	AF059490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4477	17617	30599	2.06	1.0E-120	AF059490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4784	17919	30906	3.11	1.0E-120	AF098463.1	NT	Homo sapiens stanniocalcin (STC) gene, partial cds
4784	17919	30907	3.11	1.0E-120	AF098463.1	NT	Homo sapiens stanniocalcin (STC) gene, partial cds
6863	19043	32349	16.08	1.0E-120	BF598222.1	EST_HUMAN	602183984F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
6863	19043	32350	16.08	1.0E-120	BF598222.1	EST_HUMAN	602183984F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
7748	20806	34295	1.84	1.0E-120	D94619.1	NT	Human TBAS1 gene for thromboxane synthase, exon 7
8078	21160	34677	1.38	1.0E-120	Y00067.1	NT	Human gene for neurofilament subunit M (NF-M)
8078	21160	34678	1.38	1.0E-120	Y00067.1	NT	Human gene for neurofilament subunit M (NF-M)
8527	21608	35147	2.31	1.0E-120	BF337589.1	EST_HUMAN	602036352F1 NCI_CGAP_BrM4 Homo sapiens cDNA clone IMAGE:4183333 5'
8589	21680	35218	0.9	1.0E-120	AB039057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
8589	21680	35219	0.9	1.0E-120	AB039057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
8603	21684	35221	1.94	1.0E-120	AB007964.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8603	21684	35222	1.94	1.0E-120	AB007964.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8647	21727	35204	1.31	1.0E-120	AB007934.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
9701	22750	36319	4.67	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625544 5'
9701	22750	36320	4.67	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625544 5'
9846	22885	36578	3.54	1.0E-120	BF306541.1	EST_HUMAN	601889559F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122876 5'
9882	23001	36597	6.7	1.0E-120	AL193205.1	EST_HUMAN	AJ193205 NT2RP4 Homo sapiens cDNA clone NT2RP4001541 5'
9979	23018	36612	1.02	1.0E-120	AL049801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
10098	23134		0.55	1.0E-120	AL04151.1	EST_HUMAN	CNA-BT043-090/289-075 BT043 Homo sapiens cDNA
10281	23318	36818	3.4	1.0E-120	AB028000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
11391	24452	38115	8.66	1.0E-120	BE296387.1	EST_HUMAN	601176727F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532015 5'
11625	24705	38397	2.12	1.0E-120	BE867618.1	EST_HUMAN	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5'
11625	24705	38398	2.12	1.0E-120	BE867618.1	EST_HUMAN	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5'
12657	25436	32049	1.42	1.0E-120	Y18000.1	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
75	13311	26337	0.62	1.0E-121	Y18000.1	NT	Homo sapiens NF2 gene
389	13595	26631	1.35	1.0E-121	AU194993.1	EST_HUMAN	AU194993 PLACE1 Homo sapiens cDNA clone PLACE1000899 5'
742	16020	26964	1.31	1.0E-121	5032192	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2023	15164	28269	1	1.0E-121	4755139	NT	Homo sapiens Inositol polyphosphate-4-phosphatase, type I, 107KD (INPP4A), splice variant a, mRNA
2023	15164	28270	1	1.0E-121	4755139	NT	Homo sapiens Inositol polyphosphate-4-phosphatase, type I, 107KD (INPP4A), splice variant a, mRNA
2169	15304	28431	1.22	1.0E-121	L76631.1	NT	Homo sapiens metabotropic glutamate receptor 1 beta (mGluR1beta) mRNA, complete cds
2643	15766	28880	1.07	1.0E-121	BF344378.1	EST_HUMAN	602014759F1 NCI_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4150288 5'
2643	15766	28881	1.07	1.0E-121	BF344378.1	EST_HUMAN	602014759F1 NCI_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4150288 5'
3150	16325	29336	5.8	1.0E-121	Y19208.1	NT	Homo sapiens H-b3 gene for hair keratin, exons 1 to 9
3150	16325	29337	5.8	1.0E-121	Y19208.1	NT	Homo sapiens H-b3 gene for hair keratin, exons 1 to 9
3628	16790	29807	1.23	1.0E-121	AB037768.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3628	16790	29808	1.23	1.0E-121	AB037768.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3768	16929	29934	8.25	1.0E-121	AF155156.2	NT	Homo sapiens adaptor-related protein complex AP-4 epsilon subunit mRNA, complete cds
4450	17500	30571	1.76	1.0E-121	AL263204.1	EST_HUMAN	q57801.x1 NCI_CGAP_Par1 Homo sapiens cDNA clone IMAGE:2006417 3'
5081	18219	31189	3.42	1.0E-121	X91937.1	NT	H. sapiens ECE-1 gene (exon 17)
5382	18394	31453	0.84	1.0E-121	BE222250.1	EST_HUMAN	h00908.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3168119 3'
5679	18873	32161	0.73	1.0E-121	BE271424.1	EST_HUMAN	601140485F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3049820 5'
6757	19913	33308	0.64	1.0E-121	M91463.1	NT	Human glucose transporter (GLUT4) gene, complete cds
7028	20164	AJ271736.1	0.96	1.0E-121	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region, segment 2/2
7102	18529	31483	0.79	1.0E-121	AW898086.1	EST_HUMAN	RC3-NN0066-270400-011-402 NN0066 Homo sapiens cDNA
7102	18529	31484	0.79	1.0E-121	AW898086.1	EST_HUMAN	RC3-NN0066-270400-011-402 NN0066 Homo sapiens cDNA
8123	21203	34725	1.07	1.0E-121	11436217	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2), mRNA
8127	21209	34729	2.51	1.0E-121	D84122.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 8
8127	21209	34730	2.51	1.0E-121	D84122.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 8
10062	23100	36702	1.02	1.0E-121	AW563858.1	EST_HUMAN	la05g05.y1 Human Pancreatic Islets Homo sapiens cDNA 5' similar to TR:076457 076457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA.1
10062	23100	36703	1.02	1.0E-121	AW563858.1	EST_HUMAN	la05g05.y1 Human Pancreatic Islets Homo sapiens cDNA 5' similar to TR:076457 076457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA.1
11015	24094	37733	3.45	1.0E-121	11427788	NT	Homo sapiens COX11 (yeast) homolog, cytochrome c oxidase assembly protein (COX11), mRNA
11023	24102	37740	1.94	1.0E-121	AF064200.1	NT	Homo sapiens UDP-glucuronosyltransferase 2B4 precursor (UGT2B4) mRNA, UGT2B4*E458 allele, complete cds
11211	24280	37919	5.74	1.0E-121	7330334	NT	Homo sapiens chloride intracellular channel 4 like (CLIC4L), mRNA
11243	24312	37950	1.93	1.0E-121	N59624.1	EST_HUMAN	Y774501.at Soares fetal liver spleen 1NFSL Homo sapiens cDNA clone IMAGE:248448 3'
278	13496	26526	2.64	1.0E-122	11526176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
346	13557	26585	2.33	1.0E-122	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
368	13577	28810	2.58	1.0E-122	11528178	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
805	14080	27146	3.34	1.0E-122	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
1247	14406	27468	5.19	1.0E-122	M20707.1	NT	Human kappa-immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa II)
1728	14878	27869	18.7	1.0E-122	AF167708.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1750	14899	27895	1.61	1.0E-122	11418424	NT	Homo sapiens collagen, type XI, alpha 1 (COL12A1), mRNA
1750	14899	27898	1.61	1.0E-122	11418424	NT	Homo sapiens collagen, type XI, alpha 1 (COL12A1), mRNA
1857	15003	28110	6.92	1.0E-122	BE806024.1	EST_HUMAN	601497032F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898358 5'
2560	15885	28810	7.43	1.0E-122	BF316170.1	EST_HUMAN	601896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125234 5'
2560	15885	28811	7.43	1.0E-122	BF316170.1	EST_HUMAN	601896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125234 5'
2301	16080	28096	4.87	1.0E-122	AF284717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
4971	18100	31076	3.91	1.0E-122	4502160	NT	Homo sapiens amyloid beta (A4) precursor protein (protease resistin-II, Alzheimer disease) (APP), mRNA
5104	18232	32164	1.41	1.0E-122	AW504845.1	EST_HUMAN	U1HF-BN0-df-a-03-0-J1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078948 5'
6881	18875	32164	1.2	1.0E-122	BE266039.1	EST_HUMAN	601113567F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354232 5'
6890	18875	32164	6.8	1.0E-122	BE266039.1	EST_HUMAN	601113567F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354232 5'
7303	20442	33804	0.64	1.0E-122	AA868671.1	EST_HUMAN	al48d06.s1 Soares_beside_NHT Homo sapiens cDNA clone IMAGE:1409339 3'
8898	22075	35614	0.8	1.0E-122	AJ276801.1	NT	Homo sapiens mRNA for doublesex and mab-3 related transcription factor 1 (DMRT1)
9228	22306	35849	1.17	1.0E-122	11424216	NT	Homo sapiens lethal giant larvae (Drosophila) homolog 2 (LGL2), mRNA
9524	22589	36159	0.98	1.0E-122	A959818.1	EST_HUMAN	q32h07.x1 NCI_CGAP_Bn23 Homo sapiens cDNA clone IMAGE:2013757 3' similar to SW-MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1.;
9524	22589	36160	0.98	1.0E-122	A959818.1	EST_HUMAN	q32h07.x1 NCI_CGAP_Bn23 Homo sapiens cDNA clone IMAGE:2013757 3' similar to SW-MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1.;
10338	23373	36883	0.64	1.0E-122	AL117234.1	NT	Novel human gene mapping to chromosome X, isoform of dbl (proto-oncogene)
11233	24302	37839	2.12	1.0E-122	AW865834.1	EST_HUMAN	EST367804 MAGE resequences, MAGD Homo sapiens cDNA
11667	24744	38436	1.83	1.0E-122	AB024068.1	NT	Homo sapiens gene for B120, exon 10
12231	25178	38436	5.28	1.0E-122	11418187	NT	Homo sapiens phosphatidylinositolase 1 (PIM1), mRNA
789	13968	27019	1.53	1.0E-123	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4153670 5'
789	13968	27020	1.53	1.0E-123	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4153670 5'
1038	14206	27263	6.18	1.0E-123	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C049
1047	14213	27270	3.36	1.0E-123	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
1267	14424	27491	3.83	1.0E-123	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 6-kinase, type II, beta (PIP6K2B) mRNA, and translated products

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1267	14424	27492	3.83	1.0E-123	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
2035	15176	28286	0.84	1.0E-123	11422479	NT	Homo sapiens similar to sax comb on midleg (Drosophila)-like 2 (H. sapiens) (LOC63762), mRNA
2166	15301	28427	3.21	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2166	15301	28428	3.21	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2166	15301	28428	3.21	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2389	15520		4.21	1.0E-123	7705662	NT	Homo sapiens RAB9-like protein (LOC51209), mRNA
3322	18495	29512	0.71	1.0E-123	5912617	NT	Homo sapiens glutamyl-peptide cyclotransferase (glutamyl cyclase) (QPCT), mRNA
5563	18760	31799	1.62	1.0E-123	L34219.1	NT	Homo sapiens retinaldehyde-binding protein (RALBP) gene, complete cds
5563	18760	31800	1.62	1.0E-123	L34219.1	NT	Homo sapiens retinaldehyde-binding protein (RALBP) gene, complete cds
5699	18893	32185	1.76	1.0E-123	BE799746.1	EST_HUMAN	Homo sapiens retinaldehyde-binding protein (RALBP) gene, complete cds
6508	19758	33148	1.83	1.0E-123	AU118435.1	EST_HUMAN	60158108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945433 5'
7143	20278	33718	0.91	1.0E-123	H53188.1	EST_HUMAN	AU118435 HEMBA1 Homo sapiens cDNA clone HEMBA1035691 5'
7156	20280	33733	1.39	1.0E-123	U42224.1	NT	y984e03.1 Scores fetal liver spleen 1NF1S Homo sapiens cDNA clone IMAGE:202444 5' similar to SP-YAK1_YEAST P14690 PROTEIN KINASE YAK1
7344	20424	33897	0.71	1.0E-123	U56258.1	NT	Human growth hormone releasing hormone gene, exon 7
7562	20634	34108	0.83	1.0E-123	11625833	NT	Human hBRAVONI-CAM precursor (hBRAVONI-CAM) gene, complete cds
7820	20875	34374	1.31	1.0E-123	11439439	NT	Homo sapiens heparan sulfate (glucosamine) 3-O-sulfotransferase 2 (HSSST2), mRNA
7829	20884	34386	2.22	1.0E-123	BE2663001.1	EST_HUMAN	Homo sapiens Z-5-digoxigenylate synthetase 2 (DAS2), mRNA
7836	20891	34393	0.8	1.0E-123	11437202	NT	601152815F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3609162 5'
7875	21025	34536	0.6	1.0E-123	N35841.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ20184 (FLJ20184), mRNA
7875	21025	34539	0.6	1.0E-123	N35841.1	EST_HUMAN	y98d11.1 Scores melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:268917 5' similar to PIR-S49611
8100	21182	34701	0.79	1.0E-123	AU131881.1	EST_HUMAN	S49611 protein kinase Pkpa - Phycomyces blastocystis
8100	21182	34702	0.79	1.0E-123	AU131881.1	EST_HUMAN	y98d11.1 Scores melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:268917 5' similar to PIR-S49611
8732	21812		0.7	1.0E-123	AW371924.1	EST_HUMAN	S49611 protein kinase Pkpa - Phycomyces blastocystis
9569	22711	36270	2.07	1.0E-123	AB007923.1	NT	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
9705	22754	36325	18.77	1.0E-123	U09823.1	NT	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
12020	25004	36705	4.91	1.0E-123	BF677282.1	EST_HUMAN	RC4-BT0311-251199-012-a07 BT0311 Homo sapiens cDNA
12020	25004	36708	4.91	1.0E-123	BF677282.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
12114	25094	36798	2.71	1.0E-123	AW450631.1	EST_HUMAN	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha (Rab61a2) mRNA, complete cds
12114	25094	36798	2.71	1.0E-123	AW450631.1	EST_HUMAN	602086791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
							602086791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
							UHH-B13-af-f-10-Q-U1.s1 NC1 CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2737291 3'
							UHH-B13-af-f-10-Q-U1.s1 NC1 CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2737291 3'

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
279	13497	26527	1.02	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
279	13497	26528	1.02	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
285	13503		1.49	1.0E-124	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
488	13693	26725	2.26	1.0E-124	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
709	13891	26926	4	1.0E-124	AA397561.1	EST_HUMAN	z881b04.L1 Stratiogene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
709	13891	26927	4	1.0E-124	AA397561.1	EST_HUMAN	G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG [RETROVIRAL ELEMENT];
777	13957	27008	3.72	1.0E-124	AF165654.1	NT	z881b04.L1 Stratiogene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
631	14009	27065	2.06	1.0E-124	4507500	NT	Human putative ribosomal protein S1 mRNA
927	14102	27165	2.67	1.0E-124	7705449	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1343	14499	27572	0.68	1.0E-124	11419002	NT	Homo sapiens hypothetical protein (HSPC068), mRNA
1377	14532	27605	6.42	1.0E-124	AF274892.1	NT	Homo sapiens ring finger protein (RNF), mRNA
1377	14532	27606	6.42	1.0E-124	AF274892.1	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
1858	15004	28111	4.06	1.0E-124	AJ131712.1	EST	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
2123	15269	28379	2.16	1.0E-124	BE876524.1	EST_HUMAN	Homo sapiens mRNA for nuclear RNA-helicase (noHb1 gene)
2528	15953	28777	0.98	1.0E-124	AB024060.1	NT	601491715F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3893954 5'
3678	16744	28761	1.08	1.0E-124	S78694.1	NT	Homo sapiens gene for B120, exon 11
3579	16744	28782	1.06	1.0E-124	S78694.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJB/BIR1) gene, exon
3739	16900	29804	1.24	1.0E-124	X13784.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJB/BIR1) gene, exon
4006	17163	30170	0.64	1.0E-124	4507500	NT	H. sapiens lactate dehydrogenase B gene exon 1 and 2 (EC 1.1.1.27) (and joined CDS)
4179	17329	30321	0.69	1.0E-124	4504116	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
4187	17337	30330	0.98	1.0E-124	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4866	17989	30883	2.51	1.0E-124	AB024069.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
5050	18178		15.32	1.0E-124	M18178.1	NT	Homo sapiens gene for B120, exon 11
5205	18326	31296	0.74	1.0E-124	AW953390.1	EST_HUMAN	Human fibronectin gene extra type III repeat (EDII), exon xv1
5412	18514	31588	10.49	1.0E-124	8922337	NT	EST376463 IMAGE resequences, MAGH Homo sapiens cDNA
5789	18981	32284	1.2	1.0E-124	4506786	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
6008	19193	32511	6.89	1.0E-124	BF686135.1	EST_HUMAN	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
6286	19471	32826	0.8	1.0E-124	AV711263.1	EST_HUMAN	602124944F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281635 5'
6683	19725	33103	1.12	1.0E-124	11420854	NT	AV711263 Q1 Homo sapiens cDNA clone CuaADP07 5'
7152	20286	33728	3.15	1.0E-124	Y11717.1	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA
7287	20370	33824	0.94	1.0E-124	BE271266.1	EST_HUMAN	Musculus mRNA for hoxa3 gene.
							600943771F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2869585 5'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7287	20370	33825	0.94	1.0E-124	BE271295.1	EST_HUMAN	600943771F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2865585 5'
7726	20789	34278	2.38	1.0E-124	AA630331.1	EST_HUMAN	ac08105.s1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:855897 3'
8453	21534	35064	2.73	1.0E-124	4506654	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
8857	21737	35277	1.24	1.0E-124	AW612108.1	EST_HUMAN	h94409.x1 NCI_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2863240 3' similar to TR:O85162
8857	21737	35278	1.24	1.0E-124	AW612108.1	EST_HUMAN	O85162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE ;
9363	22438	35956	0.68	1.0E-124	AI789894.1	EST_HUMAN	h94409.x1 NCI_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2863240 3' similar to TR:O85162
9363	22438	35957	0.68	1.0E-124	AI789894.1	EST_HUMAN	O85162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE ;
9891	22740	36309	1.72	1.0E-124	AV645633.1	EST_HUMAN	wc43g03.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2321428 3'
9891	22740	36310	1.72	1.0E-124	AV645633.1	EST_HUMAN	wc43g03.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2321428 3'
9808	22848	36426	7.77	1.0E-124	AI767133.1	EST_HUMAN	AV645633 GLC Homo sapiens cDNA clone GLCAGED4 3'
9808	22848	36427	7.77	1.0E-124	AI767133.1	EST_HUMAN	AV645633 GLC Homo sapiens cDNA clone GLCAGED4 3'
10075	23113	36717	1.46	1.0E-124	AW503755.1	EST_HUMAN	W183102.x1 NCI_CGAP_Kd12 Homo sapiens cDNA clone IMAGE:2400891 3'
11302	24368	38009	1.57	1.0E-124	U94776.1	NT	W183102.x1 NCI_CGAP_Kd12 Homo sapiens cDNA clone IMAGE:2400891 3'
11617	24668	38356	3.9	1.0E-124	AW665663.1	EST_HUMAN	U11F-BN0-alc-b-04-0-UL1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078846 5'
11761	23947	37576	2.18	1.0E-124	AI446455.1	EST_HUMAN	Human muscle glycogen phosphorylase (PYGM) gene, exons 8 through 17
11761	23947	37576	2.18	1.0E-124	AI446455.1	EST_HUMAN	h95a06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2880906 3'
12310	13891	26926	4.6	1.0E-124	AA397551.1	EST_HUMAN	YKRS PROTEIN ;
12310	13891	26927	4.6	1.0E-124	AA397551.1	EST_HUMAN	YKRS PROTEIN ;
12780	25522	32004	1.99	1.0E-124	AB029016.1	EST_HUMAN	z61b04.r1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
13080	26038	31680	2.36	1.0E-124	11417982	NT	G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) ;
13080	26038	31681	2.36	1.0E-124	11417982	NT	z61b04.r1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
329	13543	26239	7.32	1.0E-125	AB032988.1	NT	G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) ;
439	13239	26239	4.69	1.0E-125	BE743922.1	EST_HUMAN	Homo sapiens mRNA for KIAA1063 protein, partial cds
601	13847	26674	2.02	1.0E-125	AI110656.1	EST_HUMAN	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
601	13847	26675	2.02	1.0E-125	AI110656.1	EST_HUMAN	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
746	13927	26968	2.42	1.0E-125	AF284750.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
883	14058	27124	1.45	1.0E-125	AA042813.1	EST_HUMAN	Homo sapiens ALR-like protein mRNA, partial cds
							z453c07.s1 Soares_pregnant uterus NohIFU Homo sapiens cDNA clone IMAGE:486540 3' similar to
							gpc-X65957_cds1 OLFATORY RECEPTOR-LIKE PROTEIN HGMPO7E (HUMAN);

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1023	14104	27252	1.54	1.0E-125	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1177	14340	27304	1.73	1.0E-125	7682270	NT	Homo sapiens KIAA0744 gene product histone deacetylase 7 (KIAA0744), mRNA
1707	16045	27946	1.44	1.0E-125	7681867	NT	Homo sapiens KIAA0022 gene product (KIAA0022), mRNA
1854	15000	28106	5.91	1.0E-125	AF015450.1	NT	Homo sapiens Usurpin-alpha mRNA, complete cds
1854	15000	28107	5.91	1.0E-125	AF015450.1	NT	Homo sapiens Usurpin-alpha mRNA, complete cds
2433	15561	28687	4.81	1.0E-125	AA011278.1	EST_HUMAN	z01g09.1 Scores_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:428568 5'
2573	15698	28820	0.98	1.0E-125	AA042813.1	EST_HUMAN	z053-07.s1 Scores_pregnant_uterus_NH-IPU Homo sapiens cDNA clone IMAGE:486540 3' similar to
2661	15783	28898	2.34	1.0E-125	4504696	NT	gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2661	15783	28899	2.34	1.0E-125	4504696	NT	Homo sapiens inhibitor, alpha (INH-A) mRNA
3661	17119	30123	1.33	1.0E-125	AA042813.1	EST_HUMAN	Homo sapiens inhibitor, alpha (INH-A) mRNA
4672	17807	30796	1.82	1.0E-126	11425114	NT	z053-07.s1 Scores_pregnant_uterus_NH-IPU Homo sapiens cDNA clone IMAGE:486540 3' similar to
4672	17807	30797	1.82	1.0E-125	11425114	NT	gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
4739	17874	30857	0.85	1.0E-125	BE315412.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
5877	19087	32376	0.65	1.0E-125	BF663945.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
5894	19179	32501	1.39	1.0E-125	11436448	NT	G02139874F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4300770 5'
6013	19187	32514	1.2	1.0E-125	BE176169.1	EST_HUMAN	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
6054	19238	32561	3.63	1.0E-125	BE862660.1	EST_HUMAN	QV2-HT0577-010500-165-b08 HT0577 Homo sapiens cDNA
6096	19277	32806	0.85	1.0E-125	AI673904.1	EST_HUMAN	601433472F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918952 5'
6412	19581	32942	0.72	1.0E-125	BE736055.1	EST_HUMAN	tu87c07.x1 NCL_CGAP_Ges4 Homo sapiens cDNA clone IMAGE:2256108 3' similar to WP-C45C8.2
6711	19869	33259	3.71	1.0E-125	BE562526.1	EST_HUMAN	CE01854
6711	19869	33260	3.71	1.0E-125	BE562526.1	EST_HUMAN	601305670F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3640097 5'
7207	20072	33483	4.06	1.0E-125	X03427.1	NT	601335828F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3689790 5'
7207	20072	33484	4.06	1.0E-125	X03427.1	NT	601335828F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3689790 5'
7700	20765	34249	1.58	1.0E-125	BE278923.1	EST_HUMAN	Homo sapiens IGF-II gene, exon 5
7833	20983	34491	0.59	1.0E-125	11425572	NT	Homo sapiens IGF-II gene, exon 5
8743	21822	35357	1.49	1.0E-125	U80288.1	NT	601158076F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505603 5'
8743	21822	35358	1.49	1.0E-125	U80288.1	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
9318	22394	35945	4.15	1.0E-125	BE181840.1	EST_HUMAN	Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10
9318	22394	35946	4.15	1.0E-125	BE181840.1	EST_HUMAN	Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9581	22723	36233	1.06	1.0E-126	AI665698.1	EST_HUMAN	h62603.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2171981 3' similar to TRQ14089 Q14089
10670	23704	37313	0.72	1.0E-126	BE794576.1	EST_HUMAN	HYPOTHETICAL PROTEIN;
10712	23745	37351	1.06	1.0E-126	AB002298.1	NT	601590345F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944531 5'
10921	24004	37639	3.03	1.0E-125	AF043458.1	NT	Human mRNA for KIAA0300 gene, partial cds
11091	24165	37802	1.34	1.0E-126	11425570	NT	Homo sapiens LREL gene, exon 5
11357	24419	38076	2.42	1.0E-125	AL040655.1	EST_HUMAN	Homo sapiens norepinephrine receptor 1 (skatol) (RYR1), mRNA
11401	24462	38126	3.35	1.0E-125	AB014587.1	NT	DKFZp434N2414.1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N2414 5'
11538	24594	38303	1.63	1.0E-125	R01450.1	EST_HUMAN	Homo sapiens mRNA for KIAA0667 protein, partial cds
11568	24623	38309	2.13	1.0E-125	7669505	NT	Homo sapiens infant brain 1NIB Homo sapiens cDNA clone IMAGE:37663 5'
11575	24630	38309	6.32	1.0E-125	AF028029.1	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
11686	24685	38375	2.27	1.0E-125	AW612693.1	EST_HUMAN	Homo sapiens poly(A) binding protein II (PABP2) gene, complete cds
11763	24763	38479	4.71	1.0E-125	BE074267.1	EST_HUMAN	RC3-ST0186-250200-018-c11 ST0186 Homo sapiens cDNA
11793	24783	38480	4.71	1.0E-125	BE074267.1	EST_HUMAN	QV3-BT0589-020200-076-g09 BT0589 Homo sapiens cDNA
795	13074	27027	2.16	1.0E-126	4768007	NT	QV3-BT0589-020200-076-g09 BT0589 Homo sapiens cDNA
798	13077	27030	1.74	1.0E-126	M61638.1	NT	Homo sapiens CDC-like kinase (CLK) mRNA
942	14116	27175	1.53	1.0E-126	X68735.1	NT	Human laminin B1 chain gene, exon 20
2663	15785	28900	4.55	1.0E-126	6382078	NT	H. sapiens gene for alpha1-antitrypsin, exon 3
3140	16316	29329	8.12	1.0E-126	AA160709.1	EST_HUMAN	Homo sapiens RAN binding protein 2 (RANBP2), mRNA
3140	16316	29330	8.12	1.0E-126	AA160709.1	EST_HUMAN	z072c03.r1 Stratagene pancreas (#637208) Homo sapiens cDNA clone IMAGE:592420 5'
3719	16860	29895	0.57	1.0E-126	X63041.1	NT	z072c03.r1 Stratagene pancreas (#637208) Homo sapiens cDNA clone IMAGE:592420 5'
3745	16906	29910	2.52	1.0E-126	7657038	NT	H. sapiens DNA for liver cytochrome b5 pseudogene
4908	18038	31026	1.08	1.0E-126	AF101108.1	NT	Homo sapiens death receptor 6 (DR6), mRNA
4908	18038	31027	1.08	1.0E-126	AF101108.1	NT	Homo sapiens collagen type XI alpha-1 (COL11A1) gene, exon 63
4956	18086	31082	1.81	1.0E-126	N94078.1	EST_HUMAN	Homo sapiens collagen type XI alpha-1 (COL11A1) gene, exon 63
5820	19010	32316	0.68	1.0E-126	T66988.1	EST_HUMAN	y278c08.r1 Soares melanocyte 2NBMH Homo sapiens cDNA clone IMAGE:267850 5'
6362	19532	32691	2.91	1.0E-126	AA460075.1	EST_HUMAN	y52b12.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:66627 3'
6419	19568	32951	4.33	1.0E-126	AB040958.1	NT	z068c03.r1 Soares, fetal, testis, Nb2Hf8_9w Homo sapiens cDNA clone IMAGE:768444 5' similar to
6419	19588	32952	4.33	1.0E-126	AB040958.1	NT	TR-G1145980 G1145980 TITIN;
7669	20735	34212	0.9	1.0E-126	AF257737.1	NT	Homo sapiens mRNA for KIAA1525 protein, partial cds
7669	20735	34219	0.9	1.0E-126	AF257737.1	NT	Homo sapiens mRNA for KIAA1525 protein, partial cds
8062	21144	34682	0.73	1.0E-126	AB037715.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
8062	21144	34683	0.73	1.0E-126	AB037715.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
8062	21144	34682	0.73	1.0E-126	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8062	21144	34683	0.73	1.0E-126	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8177	21269	34781	2.42	1.0E-128	X16609.1	NT	Human mRNA for ankryrin (variant 2.1)
8377	21458	34082	0.8	1.0E-126	AA483368.1	EST_HUMAN	re74b12.s1 NCL CGAP_Ew1 Homo sapiens cDNA clone IMAGE:806983 similar to SW:TSO8_HUMAN
10000	23038	36629	0.57	1.0E-126	4506424	NT	P88066 TUMOR NECROSIS FACTOR-INDUCIBLE PROTEIN TSG-6 PRECURSOR;
11099	24172	37907	2.01	1.0E-126	BF683175.1	EST_HUMAN	Homo sapiens neuro-oncological ventral antigen 1 (NOVA1), splice variant 1, mRNA
11806	24796	38494	2.2	1.0E-126	BE261680.1	EST_HUMAN	602139138F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4298240 5'
12823	18500	31536	6.48	1.0E-126	BET43922.1	EST_HUMAN	601149404F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502129 5'
176	13400	28429	2.92	1.0E-127	AB024597.1	NT	601577881F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3826885 5'
176	13400	28430	2.92	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
177	13400	28429	2.75	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
177	13400	28430	2.75	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
284	13502	26535	2.14	1.0E-127	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
284	13502	26536	2.14	1.0E-127	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
804	14079	27145	1.17	1.0E-127	AF114488.1	NT	Homo sapiens intercalin short isoform (ITSN) mRNA, complete cds
839	14113	27174	4.81	1.0E-127	U72821.2	NT	Homo sapiens lost on transfection LOT1 mRNA, complete cds
1726	14876	27987	2.22	1.0E-127	4827053	NT	Homo sapiens ubiquitin specific protease 8 (USP8) mRNA
2127	15263	28382	1.97	1.0E-127	5803065	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2127	15263	28383	1.97	1.0E-127	5803065	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2273	15406	28535	17.46	1.0E-127	4506620	NT	Homo sapiens ribosomal protein L28 (RPL28) mRNA
2418	16547	28675	8.12	1.0E-127	AF245505.1	NT	Homo sapiens adiccan mRNA, complete cds
2874	16784	28811	21.48	1.0E-127	X12881.1	NT	Human mRNA for cyokeratin 18
3781	16942	29948	0.61	1.0E-127	AF114488.1	NT	Homo sapiens intercalin short isoform (ITSN) mRNA, complete cds
3913	17072	30070	0.7	1.0E-127	AW161297.1	EST_HUMAN	au00e06.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782594 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN ; contains element MER22 repetitive element;
4232	17379	30368	0.59	1.0E-127	AF135188.1	NT	Homo sapiens delayed rectifier potassium channel subunit isX mRNA, complete cds
4368	17511	30491	24.53	1.0E-127	7706239	NT	Homo sapiens neuroblastoma-empylified protein (LOC51594), mRNA
4368	17511	30492	24.53	1.0E-127	7706239	NT	Homo sapiens neuroblastoma-empylified protein (LOC51594), mRNA
4818	17765	30737	0.83	1.0E-127	AF252297.1	NT	Homo sapiens cytochrome P450 reductase metabolizing protein P450RAI-2 mRNA, complete cds
4725	17860	30842	6.74	1.0E-127	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
4765	17890		2.69	1.0E-127	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C068

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4795	17890	30916	4.36	1.0E-127	6912639	NT	Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA
5824	19014	32320	1.57	1.0E-127	W03547.1	EST_HUMAN	z001a10.11 Soares melanocyte 2Nbl-IM Homo sapiens cDNA clone IMAGE:291258 5' similar to SW-FJP6_RAT P10888 1-PHOSPHATIDYLINOSITOL-4,5-BISPHOSPHATE PHOSPHODIESTERASE DELTA 1;
5854	19044	32351	0.91	1.0E-127	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
5923	19110	32423	4.18	1.0E-127	X85784.1	NT	H. sapiens NOS2 gene, exon 6
6291	19494	32816	2.23	1.0E-127	X84000.1	NT	H. sapiens TCF11 gene, exon 3-6
6451	19818	32981	5.73	1.0E-127	4504778	NT	Homo sapiens Integrin, beta 8 (ITGB8) mRNA
6797	19952	33352	1.09	1.0E-127	11421595	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3), mRNA
7208	20073	33485	0.81	1.0E-127	4826977	NT	Homo sapiens rosin (RELN) mRNA
7964	21014	34525	1.31	1.0E-127	11421914	NT	Homo sapiens Pendred syndrome (PDS), mRNA
7964	21014	34526	1.31	1.0E-127	11421914	NT	Homo sapiens Pendred syndrome (PDS), mRNA
7973	21023	34536	0.63	1.0E-127	BF671365.1	EST_HUMAN	602161232F1 NIH_MGC 81 Homo sapiens cDNA clone IMAGE:4282575 5'
8088	22167	35713	0.81	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8088	22167	35714	0.81	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8840	22880	36462	3.73	1.0E-127	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
8840	22880	36463	3.73	1.0E-127	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
10077	23115	36718	0.86	1.0E-127	AI298932.1	EST_HUMAN	qm94h08.x1 NCI_CGAP_Lu6 Homo sapiens cDNA clone IMAGE:1890449 3'
10551	23586	37194	0.99	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
11426	24487	38150	5.84	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein B8 (mortalin-2) (H. sapiens) (LOC83184), mRNA
11426	24487	38151	5.84	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein B8 (mortalin-2) (H. sapiens) (LOC83184), mRNA
11927	24913	38614	1.55	1.0E-127	BE885415.1	EST_HUMAN	601434784F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3918917 5'
11927	24913	38615	1.55	1.0E-127	BE885415.1	EST_HUMAN	601434784F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3918917 5'
12539	13400	26429	3.03	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
12539	13400	26430	3.03	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
12763	25507	32037	1.74	1.0E-127	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
13170	26044		1.84	1.0E-127	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
472	13687	26700	1.66	1.0E-128	BE385817.1	EST_HUMAN	601278127F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3618822 5'
1179	14342	27396	0.96	1.0E-128	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1179	14342	27397	0.96	1.0E-128	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
2132	15268	28387	18.07	1.0E-128	U02623.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions
2132	15268	28388	18.07	1.0E-128	U02623.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2283	15415	28347	37.91	1.0E-128	4508718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
2516	15842		1.11	1.0E-128	11437455	NT	Homo sapiens chromatin-specific transcription elongation factor, 140 kDa subunit (FACTP140), mRNA
3481	16848	28684	1.17	1.0E-128	AB033073.1	NT	Homo sapiens mRNA for KIAA1247 protein, partial cds
4786	17821	30909	7.27	1.0E-128	11426873	NT	Homo sapiens prospero-related homeobox 1 (PROX1), mRNA
5682	18553	32139	0.75	1.0E-128	X69539.1	NT	H. sapiens gene for Inter-alpha-trypsin inhibitor heavy chain H1, exon 12
6548	19710	33088	1.5	1.0E-128	11420865	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA
7070	20123	33538	6.26	1.0E-128	BF224345.1	EST_HUMAN	7q86b10.x1 NCL_CGAP_L124 Homo sapiens cDNA clone IMAGE:3
8745	21824	35360	0.57	1.0E-128	AB007823.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8745	21824	35361	0.67	1.0E-128	AB007823.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
10341	23378	36987	1.29	1.0E-128	AA639188.1	EST_HUMAN	nc04411.1 NCL_CGAP_Ew1 Homo sapiens cDNA clone IMAGE:1182620 similar to TR:G851338 G851338
10849	24031	37688	3.54	1.0E-128	11425254	NT	CHROMOSOME SEGREGATION GENE HOMOLOG CAS.;
10857	24038	37873	3.61	1.0E-128	AA823859.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2D (GRIN2D), mRNA
11210	24279	37919	1.98	1.0E-128	BE887554.1	EST_HUMAN	cm88h08.s1 NCL_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1552383 3' similar to gb:U54941 CYCLIN
12402	25282		4.26	1.0E-128	AW955290.1	EST_HUMAN	DEPENDENT KINASES REGULATORY SUBUNIT 1 (HUMAN);
124	13621	28663	1.93	1.0E-128	S37722.1	NT	601511912F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913371 5'
426	13621	28663	1.65	1.0E-128	S37722.1	NT	EST1367360 MAGE resequences, MAGE Homo sapiens cDNA
1756	14906	27099	3.74	1.0E-128	AL096890.1	NT	Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
							Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
							Novel human mRNA containing Zinc finger C2H2 type domains
							Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)
							genes, complete cds
1761	14910	28004	1.68	1.0E-128	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)
							genes, complete cds
1761	14910	28005	1.66	1.0E-128	AF240788.1	NT	genes, complete cds
1894	15037	28145	4.07	1.0E-129	11418522	NT	Homo sapiens zinc finger protein 76 (expressed in testis) (ZNF76), mRNA
2838	15952	29058	2.83	1.0E-129	4505682	NT	Homo sapiens platelet-derived growth factor receptor, beta polypeptide (PDGFRB) mRNA
2838	15952	29059	2.93	1.0E-129	4505682	NT	Homo sapiens platelet-derived growth factor receptor, beta polypeptide (PDGFRB) mRNA
3188	16373	28380	1.43	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
3488	16373	28381	1.43	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
3188	16373	28382	1.43	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
4279	17424	30413	2.37	1.0E-129	AB040892.1	NT	Homo sapiens mRNA for KIAA1459 protein, partial cds
							Cardiomyopathy associated gene 5
4396	17538	30517	2.32	1.0E-128	AW755254.1	EST_HUMAN	Cardiomyopathy associated gene 5

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4395	17538	30518	2.32	1.0E-129	AW755284.1	EST_HUMAN	CMT4B Human cardiac muscle expression library Homo sapiens cDNA clone 4151835 similar to CMT4B
6216	19391	32739	3.77	1.0E-129	AJ00345.1	NT	Cardiomyopathy associated gene 5
6854	19813	33201	0.81	1.0E-129	BE88834.1	EST_HUMAN	Homo sapiens KVLQ11 gene
7277	20360	33814	3.09	1.0E-129	AJ006346.1	NT	601513861F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3915350 5'
7340	20420	33882	4.03	1.0E-129	11420850	NT	Homo sapiens KVLQ11 gene
7697	20762	34245	1.04	1.0E-129	AF041056.1	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC636894), mRNA
7697	20762	34246	1.04	1.0E-129	AF041056.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
8513	21594	357	3.57	1.0E-129	AB014534.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
10284	23319	36820	1.03	1.0E-129	11437282	NT	Homo sapiens mRNA for KIAA0634 protein, partial cds
10284	23319	36821	1.03	1.0E-129	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
10730	23763	37370	0.52	1.0E-129	A1189117.1	EST_HUMAN	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
10730	23763	37371	0.52	1.0E-129	A1189117.1	EST_HUMAN	q440408.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1858959 3' similar to TR-Q14840 Q14840
11497	24555	38230	3.32	1.0E-129	AA025628.1	EST_HUMAN	MITOGEN INDUCIBLE GENE MIG-2;
11578	20420	33882	5.01	1.0E-129	11420850	NT	q440408.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1858959 3' similar to TR-Q14840 Q14840
12887	25273		4.28	1.0E-129	H83155.1	EST_HUMAN	MITOGEN INDUCIBLE GENE MIG-2;
12817	25544		1.97	1.0E-129	AL120739.1	EST_HUMAN	q440408.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1858959 3' similar to TR-Q14840 Q14840
78	13314	26341	1.01	1.0E-130	7705530	NT	af72707.r1 Scores: NhlhMPu_S1 Homo sapiens cDNA clone IMAGE:1047589 5'
1197	14359	27418	0.84	1.0E-130	AB037835.1	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC636894), mRNA
1700	14852	27939	22.97	1.0E-130	BE275182.1	EST_HUMAN	y440405.r1 Scores: fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:189112 5' similar to
1700	14852	27940	22.97	1.0E-130	BE275182.1	EST_HUMAN	SP-B48150 B48150 HP-25-HIBERNATION-RELATED PROTEIN - TAMILAS ASIATICUS=ASIAN;
2040	15181		2.63	1.0E-130	X04082.1	NT	DKFZp762K171.1 762 (synonym: hme2) Homo sapiens cDNA clone DKFZp762K171 5'
2830	15944		7.23	1.0E-130	AJ010230.1	NT	Homo sapiens hypothetical protein (HSPG242), mRNA
2943	16120	29132	1.36	1.0E-130	BE664219.1	EST_HUMAN	Homo sapiens mRNA for KIAA1414 protein, partial cds
2943	16120	29133	1.36	1.0E-130	BE664219.1	EST_HUMAN	601121895F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346388 5'
3668	16831	28842	1.03	1.0E-130	AF240398.1	NT	601121895F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346388 5'
3668	16831	28842	1.03	1.0E-130	AF240398.1	NT	Human gene for cathepsin (EC 1.11.1.5) exon 9 mapping to chromosome 11, band p13
3864	16120	29132	6.31	1.0E-130	BE564219.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial
4047	17203	30213	1.8	1.0E-130	AW503580.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
4184	17334	30326	0.91	1.0E-130	M87710.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
4650	17796	30782	9.77	1.0E-130	AW843993.1	EST_HUMAN	Homo sapiens retinol dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5208	18329	31300	1.49	1.0E-130	AW363289.1	EST_HUMAN	RCO-CT0318-201189-031-a11 CT0318 Homo sapiens cDNA
5208	18329	31301	1.49	1.0E-130	AW363289.1	EST_HUMAN	RCO-CT0318-201189-031-a11 CT0318 Homo sapiens cDNA
6980	20188	33612	1.03	1.0E-130	AW843875.1	EST_HUMAN	CM0-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA
6980	20188	33613	1.03	1.0E-130	AW843875.1	EST_HUMAN	CM0-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA
6975	20203	33630	0.85	1.0E-130	11425446	NT	Homo sapiens estrogen-responsive B box protein (EBBP), mRNA
7404	20482	33949	1.85	1.0E-130	11418777	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
7506	20580	34052	0.83	1.0E-130	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9), mRNA, complete cds
7506	20580	34053	0.83	1.0E-130	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9), mRNA, complete cds
8881	21800		0.53	1.0E-130	AF08551.1	NT	Homo sapiens aurora-related kinase 1 (ARK1), mRNA, complete cds
9019	22038	35638	2.06	1.0E-130	AW96242.1	EST_HUMAN	EST368312 IMAGE resequenced, MAGD Homo sapiens cDNA
9415	22489	36054	1.82	1.0E-130	AB037758.1	NT	Homo sapiens mRNA for KIAA1335 protein, partial cds
10137	23175		0.83	1.0E-130	AW103454.1	EST_HUMAN	z536c04.L1 Soares_NhiHMPu_S1 Hom sapiens cDNA clone IMAGE:2569874.3'
4	13243	26243	2.52	0.0E+00	AA228126.1	EST_HUMAN	G222811 ALPHA 1 CHAIN OF TYPE XII COLLAGEN ;
4	13243	26244	2.52	0.0E+00	AA228126.1	EST_HUMAN	z536c04.L1 Soares_NhiHMPu_S1 Hom sapiens cDNA clone IMAGE:667580 5' similar to TR:G222811
8	13246	26248	1.14	0.0E+00	4885136	NT	G222811 ALPHA 1 CHAIN OF TYPE XII COLLAGEN ;
16	13254	26254	3.34	0.0E+00	8923349	NT	Homo sapiens checkpoint suppressor 1 (CHES1), mRNA
16	13254	26255	3.34	0.0E+00	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
23	13261	26262	3.17	0.0E+00	D83327.1	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
23	13261	26263	3.17	0.0E+00	D83327.1	NT	Homo sapiens DORR1 mRNA, partial cds
27	13265	26267	9	0.0E+00	AF141349.1	NT	Homo sapiens DORR1 mRNA, partial cds
35	13273	26277	0.92	0.0E+00	5802897	NT	Homo sapiens beta-tubulin mRNA, complete cds
37	13275	26280	0.89	0.0E+00	M58600.1	NT	Homo sapiens Cdc42 effector protein 2 (CEP2), mRNA
41	13279	26285	4.6	0.0E+00	6857825	NT	Human heparin cofactor II (HCF2) gene, exons 1 through 5
58	13286	26312	1.77	0.0E+00	Y17151.2	NT	Homo sapiens RNA-binding protein S1, serine-rich domain (RNPS1), mRNA
58	13286	26313	1.77	0.0E+00	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
60	13288	26317	1.45	0.0E+00	D78804.1	EST_HUMAN	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
60	13288	26318	1.45	0.0E+00	D78804.1	EST_HUMAN	HUM516f1088 Human placenta polyA+ (TF-ujwara) Homo sapiens cDNA clone GEN-516f1088 5'
61	13289	26319	9.83	0.0E+00	L16558.1	NT	HUM516f1088 Human placenta polyA+ (TF-ujwara) Homo sapiens cDNA clone GEN-516f1088 5'
63	13301	26322	16.36	0.0E+00	AW068534.1	EST_HUMAN	Human ribosomal protein L7 (RPL7) mRNA, complete cds
63	13301	26323	16.36	0.0E+00	AW068534.1	EST_HUMAN	cr48e07.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC cr48e07 3'
67	13304	26327	2.48	0.0E+00	M50676.1	NT	cr48e07.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC cr48e07 3'
							Human von Willebrand factor pseudogene corresponding to exons 23 through 34

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
69	13308		23.72	0.0E+00	M30878.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
77	13313	26339	2.1	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
77	13313	26340	2.1	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
80	13313	26339	1.08	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
80	13313	26340	1.08	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
83	13318	26346	0.62	0.0E+00	AA953770.1	EST_HUMAN	SW:TMOD_HUMAN P28289 TROPOMODULIN.;
84	13319	26347	16.99	0.0E+00	4501850	NT	Homo sapiens amiloride binding protein 1 (amine oxidase (copper-containing)) (ABP1), nuclear gene encoding mitochondrial protein, mRNA
85	13320		12.3	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
84	13329	26356	23.92	0.0E+00	5010088	NT	Homo sapiens actin, beta (ACTB) mRNA
87	13332	26359	40.96	0.0E+00	U89277.1	NT	Human polyomelic 1 homolog (HPH1) mRNA, partial cds
103	13339	26366	2.4	0.0E+00	A1114743.1	EST_HUMAN	HA1347 Human fetal liver cDNA library Homo sapiens cDNA
104	13340	26367	0.8	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
110	13343	26371	0.68	0.0E+00	X91213.1	NT	H. sapiens hox1 gene (exon 2)
118	13350	26377	0.68	0.0E+00	A1823701.1	EST_HUMAN	ts3805.x1 NCJ_CGAP_U4 Homo sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q99551 Q99551
119	13350	26377	1.58	0.0E+00	A1823701.1	EST_HUMAN	MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR.;
120	15280	26378	1.92	0.0E+00	N36040.1	EST_HUMAN	ts3805.x1 NCJ_CGAP_U4 Homo sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q99551 Q99551
120	15980	26379	1.92	0.0E+00	N36040.1	EST_HUMAN	MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR.;
123	13353	26384	1.63	0.0E+00	4505458	NT	Y91109.11 Soares melanocyte 2Nbl-HM Homo sapiens cDNA clone IMAGE:270017 5'
133	13359	26392	3.65	0.0E+00	4505938	NT	Y91109.11 Soares melanocyte 2Nbl-HM Homo sapiens cDNA clone IMAGE:270017 5'
133	13359	26393	3.65	0.0E+00	4505938	NT	Homo sapiens neuropilin 2 (NRP2) mRNA
141	13309	26947	1.9	0.0E+00	4503680	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
143	13367	26400	0.7	0.0E+00	T56945.1	EST_HUMAN	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
143	13367	26401	0.7	0.0E+00	T56945.1	EST_HUMAN	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
157	13382		12.8	0.0E+00	4504444	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
161	13380	26416	2.06	0.0E+00	BF036881.1	EST_HUMAN	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
163	13388		98.39	0.0E+00	4504444	NT	Y83g04.12 Stratagene fetal spleen (#837205) Homo sapiens cDNA clone IMAGE:68310 5'
166	13397	26419	12.6	0.0E+00	AF111168.2	NT	Y83g04.12 Stratagene fetal spleen (#837205) Homo sapiens cDNA clone IMAGE:68310 5'
168	13393	26420	1.03	0.0E+00	BE295973.1	EST_HUMAN	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
169	13393	26420	0.79	0.0E+00	BE295973.1	EST_HUMAN	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
170	13304	28421	2.4	0.0E+00	W73973.1	EST_HUMAN	z62605.1 Sources_fetal_heart_NIH19W Homo sapiens cDNA clone IMAGE:346201 5' similar to gb:X16282_cds1 ZINC FINGER PROTEIN CLONE 647 (HUMAN);
171	13395	28422	0.79	0.0E+00	BE162832.1	EST_HUMAN	QV3-HT0457-140200-088-d04 HT0457 Homo sapiens cDNA
171	13395	28423	0.79	0.0E+00	BE162832.1	EST_HUMAN	QV3-HT0457-140200-088-d04 HT0457 Homo sapiens cDNA
172	13396	28424	4.73	0.0E+00	AF244088.1	NT	Homo sapiens zinc finger protein mRNA, complete cds
176	13399	28427	28.75	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
175	13399	28428	26.75	0.0E+00	AL163202.2	NT	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2863854 5' similar to WP:Y57A10A.Z
185	13407	28435	6.75	0.0E+00	BE018970.1	EST_HUMAN	CE22691;
185	13407	28436	6.75	0.0E+00	BE018970.1	EST_HUMAN	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2863854 5' similar to WP:Y57A10A.Z
190	13412	28439	2.4	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
190	13412	28440	2.4	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
191	13413	28441	1.68	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
191	13413	28442	1.68	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
189	13422	28453	57.89	0.0E+00	D60659.1	NT	Human gamma-cytoplasmic actin (ACTGP9) pseudogene
204	13427	28458	3.13	0.0E+00	AF273045.1	NT	Homo sapiens CTCL tumor antigen so14-3 mRNA, complete cds
204	13427	28459	3.13	0.0E+00	AF273045.1	NT	Homo sapiens CTCL tumor antigen so14-3 mRNA, complete cds
206	13429	28461	7.71	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds
206	13429	28462	7.71	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds
216	16007	28469	12	0.0E+00	AI587508.1	EST_HUMAN	tp04f08.x1 NCI_CGAP_U13 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb:J03181 PROFILIN 1 (HUMAN);
216	16007	28470	12	0.0E+00	AI587308.1	EST_HUMAN	tp04f08.x1 NCI_CGAP_U13 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb:J03181 PROFILIN 1 (HUMAN);
218	13440	28472	1.93	0.0E+00	AF196538.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
221	13443		11.48	0.0E+00	4506832	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
222	13444		6.63	0.0E+00	AF132000.1	NT	Homo sapiens TADA1 protein mRNA, complete cds
228	13450	28478	1.48	0.0E+00	AB018284.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
229	13450	28478	1.34	0.0E+00	AB018284.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
230	13451	28479	2.02	0.0E+00	6878444	NT	Mus musculus testis-specific protein, Y-encoded-like (Tspyl), mRNA
237	13459	28483	0.89	0.0E+00	BE246780.1	EST_HUMAN	TCBAP1E4468 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4468
237	13459	28484	0.89	0.0E+00	BE246780.1	EST_HUMAN	TCBAP1E4468 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4468

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
237	13459	28485	0.89	0.0E+00	BE246780.1	EST_HUMAN	TCBAP1E4466 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project-TCBA Homo sapiens cDNA clone TCBAP4466
245	13467	28498	1.17	0.0E+00	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
245	13467	28497	1.17	0.0E+00	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
248	13469	28501	7.54	0.0E+00	5453805	NT	Homo sapiens NS1-associated protein 1 (NSAP1) mRNA
250	13471		3.79	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
257	13476	28507	4.65	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
259	13478	28510	1.22	0.0E+00	X89772.1	NT	H. sapiens mRNA for Interferon alpha/beta receptor (long form)
267	13486		5.95	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
280	13498	28529	1.37	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
280	13498	28530	1.37	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
282	13500	28532	1.9	0.0E+00	7706028	NT	Homo sapiens hypothetical protein (LOC61260), mRNA
283	13510		0.96	0.0E+00	D83327.1	NT	Homo sapiens DQRR1 mRNA, partial cds
284	13511	28545	1.2	0.0E+00	D83327.1	NT	Homo sapiens DQRR1 mRNA, partial cds
284	13511	28546	1.2	0.0E+00	D83327.1	NT	Homo sapiens DQRR1 mRNA, partial cds
285	13512		1.41	0.0E+00	AW845293.1	EST_HUMAN	IL2-CT0031-181189-020-903 CT0031 Homo sapiens cDNA
304	13520	28553	5.65	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
304	13520	28554	5.65	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
315	13531	28584	5.16	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
316	13532	28565	4.28	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
317	16010		8.13	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
318	13533		1.42	0.0E+00	AA480002.1	EST_HUMAN	zy18c08.r1 Soares NIHMPu. S1 Homo sapiens cDNA clone IMAGE:753994 5'
319	13534	28586	19.55	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
320	13534	28566	24.65	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
324	13538	28570	1.59	0.0E+00	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
327	13550	28579	1.15	0.0E+00	O14867	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
337	13550	28580	1.15	0.0E+00	O14867	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
338	13551	28581	4.14	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
339	13551	28581	1.82	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
354	13565	28593	4.38	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24)) homolog; translocated to, 4 (MLLT4) mRNA
355	13566	28594	0.74	0.0E+00	4505256	NT	Homo sapiens moesin (MSN), mRNA
358	13569	28598	4.58	0.0E+00	4827057	NT	Homo sapiens X-box binding protein 1 (XBP1) mRNA
361	13572	28603	0.98	0.0E+00	U71600.1	NT	Human zinc finger protein zfp31 (zfp31) mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
366	13576	26607	2.75	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
366	13576	26608	2.75	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
367	16011	26609	2.53	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
369	13578	26611	1.01	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
372	13581	26616	1.59	0.0E+00	4503954	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
373	13582	26616	2	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
374	13582	26616	1.43	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
376	13584	26618	0.66	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
387	13593	26628	3.37	0.0E+00	AU194963.1	EST_HUMAN	AU194963 PLACE1 Homo sapiens cDNA clone PLACE100899 6'
388	13635	26673	7.56	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
389	13636	26674	1.08	0.0E+00	AJ863014.1	EST_HUMAN	qy1h05.x1 NCI_CGAP_Bir25 Homo sapiens cDNA clone IMAGE:2018457 3' similar to gbX54199
404	13601	26636	1.32	0.0E+00	AW754180.1	EST_HUMAN	PHOSPHORIBOSYLAMINE-GLYCINE LIGASE (HUMAN);
407	13603	26639	2.24	0.0E+00	4503680	NT	RC2-CT0320-300100-016-a09 CT0320 Homo sapiens cDNA
408	13604	26640	2.34	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
408	13604	26641	2.34	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
409	13605	26642	2.18	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
410	13606	26643	1.42	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
410	13606	26644	1.42	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
411	13607	26645	1.98	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
412	13608	26646	2.55	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
413	13609	26647	2.14	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
414	13610	26648	0.96	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-28
414	13610	26649	0.96	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-28
415	13610	26649	1.07	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-28
416	13610	26649	1.07	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-28
419	13614		18.46	0.0E+00	4506608	NT	Homo sapiens ribosomal protein L19 (RPL19) mRNA
433	13233	26623	1.49	0.0E+00	R17795.1	EST_HUMAN	yc03a02.r1 Soesne infant brain TNIB Homo sapiens cDNA clone IMAGE:31652 5'
441	13037	26675	1.39	0.0E+00	4503914	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase,
442	13638		3.85	0.0E+00	4506728	NT	phosphoribosylmethylimidazole synthetase (GART) mRNA
443	13639	26676	2.82	0.0E+00	AB028942.1	NT	Homo sapiens ribosomal protein S5 (RP-S5) mRNA
444	13640	26677	17.7	0.0E+00	4507152	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
444	13640	26678	17.7	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
445	13641	26879	4.23	0.0E+00	AF193607.1	NT	Mus musculus truncated SON protein (Son) mRNA, complete cds
457	13652		1.45	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
459	13654	26692	4.44	0.0E+00	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
464	13659		0.75	0.0E+00	BE264447.1	EST_HUMAN	601111520F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352348.5
480	13676	26706	3.38	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
480	13676	26707	3.38	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
488	13680	26715	21.77	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
488	13680	26716	21.77	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
496	13681	26722	4.1	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
497	13682	26723	5.9	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
497	13682	26724	5.9	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
497	13682	26729	4.25	0.0E+00	AB033035.1	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
508	13702	26731	1.81	0.0E+00	AL132898.1	EST_HUMAN	AI142888 NT2R24 Homo sapiens cDNA clone NT2RP4000837.5
516	13710	26737	1.86	0.0E+00	BE385144.1	EST_HUMAN	601274951F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615756.5
517	16014	26738	1.7	0.0E+00	AW938825.1	EST_HUMAN	P1MO-DT0065-130400-002-c06 DT0065 Homo sapiens cDNA
520	13713	26740	1.82	0.0E+00	AL117233.1	NT	Novel human gene mapping to chromosome 1
521	13714	26741	0.95	0.0E+00	8923965	NT	Homo sapiens PC326 protein (PC326), mRNA
525	13748		1.9	0.0E+00	BF373403.1	EST_HUMAN	IL2-FTD159-070800-120-F07 FT0150 Homo sapiens cDNA
532	13725	26751	4.43	0.0E+00	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
538	18015	26755	1.57	0.0E+00	BE061527.1	EST_HUMAN	QV2-BT0635-180400-142-H05 BT0635 Homo sapiens cDNA
544	18737	26761	1.15	0.0E+00	BF028005.1	EST_HUMAN	601764958F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3966968.5
550	13743	26768	1.57	0.0E+00	AB040509.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
553	13746	26771	8.39	0.0E+00	5006030	NT	Homo sapiens transcription elongation factor B (SII), polypeptide 1-like (TCCEB1L) mRNA
564	13747	26772	4.53	0.0E+00	4504038	NT	Homo sapiens transcription elongation factor B (SII), polypeptide 1-like (TCCEB1L) mRNA
554	13747	26773	4.53	0.0E+00	4504038	NT	Homo sapiens transcription elongation factor B (SII), polypeptide 1-like (TCCEB1L) mRNA
566	13749	26775	0.73	0.0E+00	8923831	NT	Homo sapiens transcription elongation factor B (SII), polypeptide 1-like (TCCEB1L) mRNA
557	13750	26776	0.63	0.0E+00	8923831	NT	Homo sapiens transcription elongation factor B (SII), polypeptide 1-like (TCCEB1L) mRNA
557	13750	26777	0.63	0.0E+00	8923831	NT	Homo sapiens transcription elongation factor B (SII), polypeptide 1-like (TCCEB1L) mRNA
582	13754		4.82	0.0E+00	AF003528.1	NT	Homo sapiens anillin (LOC54443), mRNA
570	13762	26786	1.39	0.0E+00	AW135324.1	EST_HUMAN	Homo sapiens anillin (LOC54443), mRNA
580	13772		5.31	0.0E+00	D10083.1	NT	Homo sapiens anillin (LOC54443), mRNA
590	13789	26810	1.85	0.0E+00	5174742	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
							UH-B11-acb-b-04-0-UL.s1 NCJ CGAP Sub3 Homo sapiens cDNA clone IMAGE:2713951.3
							Homo sapiens RGH1 gene, retrovirus-like element
							Homo sapiens ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 (UQCRCF1), nuclear gene
							Homo sapiens mitochondrial protein, mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
612	13801		7.14	0.0E+00	J04068.1	NT	Human apolipoprotein A-I (ApoA-I) gene, exon 1
615	13804	26824	1.87	0.0E+00	BF104898.1	EST_HUMAN	60182827F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4045447 5'
617	13806	26826	0.95	0.0E+00	8823631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
617	13806	26827	0.95	0.0E+00	8823631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
618	13806	26826	0.77	0.0E+00	8823631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
618	13806	26827	0.77	0.0E+00	8823631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
619	13806	26826	0.72	0.0E+00	8823631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
619	13806	26827	0.72	0.0E+00	8823631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
624	13808	26830	0.84	0.0E+00	4501854	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
628	13814	26836	1.93	0.0E+00	AF221712.1	NT	Homo sapiens Smead- and Olf-interacting zinc finger protein mRNA, partial cds
629	13814	26837	1.83	0.0E+00	AF221712.1	NT	Homo sapiens Smead- and Olf-interacting zinc finger protein mRNA, partial cds
639	13824	26847	2.19	0.0E+00	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
641	13826	26850	0.93	0.0E+00	AB037807.1	NT	Homo sapiens mRNA for KIAA1388 protein, partial cds
643	13828	26851	1.99	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
644	13829	26852	2.34	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
644	13829	26853	2.34	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
646	13830	26854	0.98	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
645	13830	26855	0.98	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
652	13838	26865	1.42	0.0E+00	AA390488.1	EST_HUMAN	z60c07.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:728732 5'
656	13842	26869	6.57	0.0E+00	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
660	13848	26872	4.28	0.0E+00	W78811.1	EST_HUMAN	z615b04.1 Soares_fetal_liver_spleen_1NFL3_S1 Homo sapiens cDNA clone IMAGE:415587 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
660	13848	26873	4.28	0.0E+00	W78811.1	EST_HUMAN	z615b04.1 Soares_fetal_liver_spleen_1NFL3_S1 Homo sapiens cDNA clone IMAGE:415587 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
663	13849	26873	3.58	0.0E+00	4885526	NT	Homo sapiens novel SH2-containing protein 3 (NSP3) mRNA
670	13853	26885	2.16	0.0E+00	6006003	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2B (GRIN2B) mRNA
672	13858	26888	1.25	0.0E+00	5031624	NT	Homo sapiens CCAAT-box-binding transcription factor (CBF2) mRNA
676	13861	26892	1.88	0.0E+00	U05235.1	NT	Homo sapiens neutral amino acid transporter (ASCT1) gene, exon 8
679	13865	26896	1.07	0.0E+00	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCas (NCX1) mRNA, complete cds
679	13865	26896	1.07	0.0E+00	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCas (NCX1) mRNA, complete cds
685	13870	26901	5.11	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRICK) mRNA
685	13870	26902	5.11	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRICK) mRNA
691	16018		1.8	0.0E+00	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
700	13883	26916	3.92	0.0E+00	4604424	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 1 (HMG1) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
705	13888	26920	4.94	0.0E+00	AB023012.1	NT	Homo sapiens mRNA for KIAA1089 protein, partial cds
715	13897	26935	3.83	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
727	13909	26949	13.13	0.0E+00	AA614537.1	EST_HUMAN	np49401.at1 NC1 CGAP_B1.1 Homo sapiens cDNA clone IMAGE:1129633 3' similar to gb:567352
731	13913	26953	6.4	0.0E+00	M60675.1	NT	INTERFERON-INDUCIBLE PROTEIN 1-8U (HUMAN);
731	13913	26954	6.4	0.0E+00	M60675.1	NT	Human von Willebrand factor gene, exons 23 through 34
741	13923	26963	1.35	0.0E+00	5032182	NT	Human von Willebrand factor gene, exons 23 through 34
747	13928	26969	4.92	0.0E+00	AF264750.1	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
747	13928	26970	4.92	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
749	13930	26973	9.17	0.0E+00	11545800	NT	Homo sapiens ALR-like protein mRNA, partial cds
755	13938	26981	2.26	0.0E+00	BE241577.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
776	13956	27005	1.19	0.0E+00	AF226980.2	NT	TCAAP1D0779 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project= TCAA Homo sapiens cDNA clone TCAAP0779
775	13955	27006	1.19	0.0E+00	AF226980.2	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
778	13958	27009	8.92	0.0E+00	J03764.1	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
778	13958	27010	8.92	0.0E+00	J03764.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
781	13961	27011	0.96	0.0E+00	AB037780.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
782	13962	27012	2.07	0.0E+00	6912749	NT	Homo sapiens mRNA for KIAA1339 protein, partial cds
784	16022	27014	2.36	0.0E+00	D30612.1	NT	Homo sapiens zinc finger protein 212 (ZNF212), mRNA
785	13964	27015	3.55	0.0E+00	BE669735.1	EST_HUMAN	Homo sapiens mRNA for repressor protein, partial cds
780	13969	27021	4.04	0.0E+00	R48915.1	EST_HUMAN	801445847F1 NIH_MGC_95 Homo sapiens cDNA clone IMAGE:3849803 5'
791	13970	27022	2.85	0.0E+00	5032088	NT	y69g08.l1 Soares breast 2NblBst Homo sapiens cDNA clone IMAGE:154046 5'
800	13979	27031	1.64	0.0E+00	AB011399.1	NT	Homo sapiens splicing factor 3a, subunit 1, 120kD (SF3A1), mRNA
803	13983	27035	3.01	0.0E+00	7661865	NT	Homo sapiens gene for AF-6, complete cds
815	13994	27048	1.24	0.0E+00	D80006.1	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
815	13994	27049	1.24	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
820	13999	27053	2.74	0.0E+00	X89772.1	NT	Human mRNA for KIAA0184 gene, partial cds
824	14003	27057	3.25	0.0E+00	AB020717.1	NT	H. sapiens mRNA for interferon alpha/beta receptor (long form)
824	14003	27058	3.25	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
829	14007	27064	13.47	0.0E+00	5174478	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
830	14008		11.09	0.0E+00	4507500	NT	Homo sapiens pericentrin (PCNT) mRNA
847	14025	27085	1.65	0.0E+00	7657213	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
848	14028	27086	2.46	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
850	14028	27088	1.84	0.0E+00	4557686	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
							Homo sapiens potassium voltage-gated channel, Isk-related family, member 1 (KCNIE1) mRNA

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859	14033	27094	2.19	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
856	14033	27095	2.19	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
857	14034	27096	1.45	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
862	14039	27101	2.85	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
866	14042	27106	1.37	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
868	14042	27107	1.37	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
873	14049		2.07	0.0E+00	AF027153.1	NT	Homo sapiens sodium/myo-inositol cotransporter (SLC5A5) gene, complete cds
877	14053	27118	5.27	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
877	14053	27119	5.27	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
878	14054	27120	11.32	0.0E+00	AB028942.1	NT	Homo sapiens SON DNA binding protein (SON) mRNA
879	14055	27121	4.03	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
880	14056	27122	3.87	0.0E+00	4508728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
884	14060	27123	1.54	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
884	14060	27126	1.54	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
885	14061	27127	1.82	0.0E+00	AA533272.1	EST_HUMAN	U66407.s1 NCI_CGAP_P110 Homo sapiens cDNA clone IMAGE:987453
885	14061	27128	1.82	0.0E+00	AA533272.1	EST_HUMAN	U66407.s1 NCI_CGAP_P110 Homo sapiens cDNA clone IMAGE:987453
888	14062		8.41	0.0E+00	BF677694.1	EST_HUMAN	602085579F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249876.6
888	14066	27129	1.4	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
888	14066	27130	1.4	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
891	14067	27131	2.54	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
891	14067	27132	2.54	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
891	14067	27133	2.54	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
914	14089	27155	0.98	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
921	14098	27160	1.93	0.0E+00	BE089592.1	EST_HUMAN	QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA
921	14098	27161	1.93	0.0E+00	BE089592.1	EST_HUMAN	QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA
931	14108	27170	2.7	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
941	14115		9.06	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA
943	14115		9.69	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA
944	14117	27176	1.42	0.0E+00	AF089747.1	NT	Homo sapiens alpha-1-antitrypsin precursor, mRNA, partial cds
945	14118	27177	0.69	0.0E+00	S99394.1	NT	protein C inhibitor [human, leukocytes, Genbank, 1216 nt, segment 2 of 5]
945	14118	27178	0.69	0.0E+00	S99394.1	NT	protein C inhibitor [human, leukocytes, Genbank, 1216 nt, segment 2 of 5]
945	14118	27179	0.69	0.0E+00	S99394.1	NT	protein C inhibitor [human, leukocytes, Genbank, 1216 nt, segment 2 of 5]
946	14119	27180	1.62	0.0E+00	L28101.1	NT	Homo sapiens kallistatin (P14) gene, exons 1-4, complete cds
946	14119	27181	1.62	0.0E+00	L28101.1	NT	Homo sapiens kallistatin (P14) gene, exons 1-4, complete cds
949	14122	27183	0.71	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
949	14122	27184	0.71	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
973	14146	27205	0.93	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
974	14147	27206	0.11	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
975	14148	27207	0.79	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
976	14149	27208	1.24	0.0E+00	4507430	NT	Homo sapiens thyroidal embryonic factor (TEF), mRNA
978	14149	27209	1.24	0.0E+00	4507430	NT	Homo sapiens thyroidal embryonic factor (TEF), mRNA
984	16027	27216	3.95	0.0E+00	A001948.1	EST_HUMAN	os88e03 at NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
984	16027	27217	3.95	0.0E+00	A001948.1	EST_HUMAN	os88e03 at NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
986	14168	27219	14.34	0.0E+00	7857288	NT	Homo sapiens KIAA0828 protein Msc2 Interacting nuclear target (MINT) homolog (KIAA0828), mRNA
997	14168	27229	1.76	0.0E+00	AB030563.1	NT	Homo sapiens mRNA for PSP24, complete cds
1008	14177	27236	43.62	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050300-001-02 GN0014 Homo sapiens cDNA
1009	14177	27237	43.62	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050300-001-02 GN0014 Homo sapiens cDNA
1006	14177	27238	43.62	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050300-001-02 GN0014 Homo sapiens cDNA
1008	14179	27241	2.02	0.0E+00	X62207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
1008	14179	27242	2.02	0.0E+00	X62207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
1017	14188	27249	3.97	0.0E+00	4757989	NT	Homo sapiens chromodomain protein, Y chromosome-like (CDYL), mRNA
1029	14189	27257	1.07	0.0E+00	U83658.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
1030	14200	27258	5.81	0.0E+00	U83658.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
1031	14200	27258	9.09	0.0E+00	U83658.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
1034	14203		4	0.0E+00	AF199490.1	NT	Homo sapiens 8q22.1 region and MITG8 (CBFAZT1) gene, partial cds
1035	14203		29.86	0.0E+00	AF199490.1	NT	Homo sapiens 8q22.1 region and MITG8 (CBFAZT1) gene, partial cds
1039	14207	27264	0.96	0.0E+00	AF111170.3	NT	Homo sapiens 14q32.1 Jagged2 gene, complete cds; and unknown gene
1040	14207	27264	4.86	0.0E+00	AF111170.3	NT	Homo sapiens 14q32.1 Jagged2 gene, complete cds; and unknown gene
1041	14207	27264	1.3	0.0E+00	AF111170.3	NT	Homo sapiens 14q32.1 Jagged2 gene, complete cds; and unknown gene
1042	14208	27266	1.18	0.0E+00	AF111170.3	NT	Homo sapiens 14q32.1 Jagged2 gene, complete cds; and unknown gene
1045	14211	27268	2.11	0.0E+00		NT	Homo sapiens DKFZP686M0122 protein (DKFZP686M0122), mRNA
1049	14216	27272	1.27	0.0E+00	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (IMMT), mRNA
1051	14217		1.39	0.0E+00	A4458980.1	EST_HUMAN	as88g07 at Stragene fetal retina 637202 Homo sapiens cDNA clone IMAGE:888236 3' similar to SW:PR88_HUMAN P47210 26S PROTEASE REGULATORY SUBUNIT 8;
1064	14220	27277	2.43	0.0E+00	N43182.1	EST_HUMAN	EST5124 WATM1 Homo sapiens cDNA clone 5124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1054	14220	27278	2.43	0.0E+00	N43182.1	EST_HUMAN	EST5124 WATM1 Homo sapiens cDNA clone 5124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1055	14221	27279	0.97	0.0E+00	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1055	14221	27280	0.97	0.0E+00	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
1058	14224		3.27	0.0E+00	8922833	NT	Homo sapiens hypothetical protein FLJ11186 (FLJ11186), mRNA
1072	14238	27286	1.51	0.0E+00	4758560	NT	Homo sapiens heat shock 70kD protein 98 (hsc70-2) (HSPA98) mRNA
1080	14256	27310	1.51	0.0E+00	4826672	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA
1080	14255	27311	1.51	0.0E+00	4826672	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA
1084	14259	27315	2.74	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20685 (FLJ20685), mRNA
1084	14259	27316	2.74	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20686 (FLJ20686), mRNA
1085	14260	27317	13.57	0.0E+00	AJ248622.1	NT	Homo sapiens hypothetical protein FLJ20688 (FLJ20688), mRNA
1087	14262		0.92	0.0E+00	8923087	NT	Homo sapiens hypothetical protein FLJ20689 (FLJ20689), mRNA
1089	14264	27321	2.81	0.0E+00	6174384	NT	Homo sapiens hypothetical protein FLJ20690 (FLJ20690), mRNA
1089	14264	27321	2.81	0.0E+00	6174384	NT	Homo sapiens hypothetical protein FLJ20690 (FLJ20690), mRNA
1108	14271	27330	2.04	0.0E+00	4758117	NT	Homo sapiens Death associated protein 3 (DAP3) mRNA
1120	14285	27340	1.91	0.0E+00	BE005208.1	EST_HUMAN	MR0-BN0116-203300-003-H08 BN0115 Homo sapiens cDNA
1143	14308	27364	3.82	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1143	14308	27365	3.82	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1155	14319	27373	0.82	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
1155	14319	27374	0.82	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
1156	14320	27375	9.35	0.0E+00	4506712	NT	Homo sapiens ribosomal protein S27a (RPS27A) mRNA
1158	14322	27377	1.2	0.0E+00	8923230	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
1161	14325	27380	3.95	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1163	14327	27381	19.6	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1164	14328	27382	4.52	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1164	14328	27383	4.52	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1168	14331	27386	1.44	0.0E+00	7706500	NT	Homo sapiens Npw38-binding protein Npw38P (LOC51729), mRNA
1169	14332	27387	0.71	0.0E+00	X95828.1	NT	H.sapiens ART4 gene
1169	14332	27388	0.71	0.0E+00	X95828.1	NT	H.sapiens ART4 gene
1169	14332	27388	0.71	0.0E+00	X95828.1	NT	qlb22d10.x1 Soares, pregnant, uterus, Nib-PU Homo sapiens cDNA clone IMAGE:1697011 3'
1170	14333	27389	1.15	0.0E+00	AH147650.1	EST_HUMAN	Homo sapiens mRNA for KIAA0903 protein, partial cds
1172	14335	27391	1.62	0.0E+00	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1181	14344	27400	1.22	0.0E+00	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1181	14344	27401	1.22	0.0E+00	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1182	14345	27402	1.32	0.0E+00	8968844	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
1185	14357	27415	2.19	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1185	14357	27416	2.19	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1188	14360	27419	1.09	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
1205	14367	27426	8.64	0.0E+00	4557837	NT	Homo sapiens keratin 18 (KRT18) mRNA

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1236	14395		1.28	0.0E+00	7657336	NT	Homo sapiens mult. (E. coli) homolog 3 (MLH3), mRNA
1250	14409	27471	0.94	0.0E+00	8922593	NT	Homo sapiens hypothetical protein FLJ10697 (FLJ10697), mRNA
1254	14413	27475	2.89	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1254	14413	27476	2.89	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1255	14414	27477	3.33	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1256	15032	27478	2.46	0.0E+00	AF284750.1	NT	Homo sapiens chromosome 3 subtelomeric region
1275	14432	27503	4.88	0.0E+00	AF109718.1	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1276	14433	27504	1.67	0.0E+00	4503098	NT	Homo sapiens prefoldin 4 (PF4) mRNA
1286	14442	27510	0.69	0.0E+00	4505740	NT	Homo sapiens NF2 gene
1295	14451		1.38	0.0E+00	Y18000.1	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1303	14459	27525	29.86	0.0E+00	4509718	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSCE9) mRNA, complete cds
1310	14466	27534	2.96	0.0E+00	AF084478.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1316	14472	27538	1.53	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1316	14472	27539	1.53	0.0E+00	AB040940.1	NT	Homo sapiens Wolfman syndrome (WFS) mRNA
1328	14485	27562	3.28	0.0E+00	6174748	NT	Homo sapiens Wolfman syndrome (WFS) mRNA
1328	14485	27563	3.28	0.0E+00	6174748	NT	Homo sapiens Wolfman syndrome (WFS) mRNA
1328	14485	27564	3.28	0.0E+00	6174748	NT	Homo sapiens Wolfman syndrome (WFS) mRNA
1329	14498		2.16	0.0E+00	AF096156.1	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1339	16034	27566	1.2	0.0E+00	7657529	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1339	16034	27567	1.2	0.0E+00	7657529	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1345	16091	27573	1.4	0.0E+00	Y07828.2	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1346	14501	27574	1.86	0.0E+00	5803146	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1347	14502	27575	0.83	0.0E+00	4508004	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1349	14504	27576	1.7	0.0E+00	Y07828.2	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1350	14505	27577	1.55	0.0E+00	5803146	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1351	14506	27578	0.71	0.0E+00	4508004	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1353	14508	27580	4.44	0.0E+00	AB011149.1	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1354	14509	27581	1.34	0.0E+00	7661965	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1355	14510	27582	4.99	0.0E+00	7661965	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1356	14511	27583	3.83	0.0E+00	8667387	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1356	14511	27584	3.83	0.0E+00	8667387	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1356	14511	27584	3.83	0.0E+00	8667387	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1368	14522	27587	1.36	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
1429	14583	27656	1.02	0.0E+00	BE257955.1	EST_HUMAN	60110972F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350471 5'
1429	14583	27657	1.02	0.0E+00	BE257955.1	EST_HUMAN	60110972F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350471 5'

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1440	14593	27688	1.03	0.0E+00	AJ250014.1	NT	Homo sapiens mRNA for Familial Cylindromatosis cyd gene
1449	14602	27680	13.57	0.0E+00	6042206	NT	RAN, member RAS oncogene family-Homo sapiens RAN, member RAS oncogene family (RAN), mRNA
1457	14610	27690	0.97	0.0E+00	4505646	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1457	14610	27691	0.97	0.0E+00	4505646	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1459	14612	27694	1.98	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1459	14612	27695	1.89	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1462	14615	27697	29.09	0.0E+00	AJ238033.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
1471	14625	27709	4.63	0.0E+00	AF038280.1	NT	Homo sapiens alpha1-8fucosyltransferase (alpha1-8FucT) gene, exon 7
1490	14643	27724	4.2	0.0E+00	AL132559.1	NT	Novel human gene on chromosome 20
1491	14644	27725	1.37	0.0E+00	AL137764.1	NT	Novel human gene mapping to chromosome 1
1495	14648	27730	1.73	0.0E+00	D87077.1	NT	Human mRNA for KIAA0240 gene, partial cds
1498	14651	27733	8.24	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1500	14653	27735	2.28	0.0E+00	7661985	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1500	14653	27736	2.28	0.0E+00	7661985	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1501	14654		3.74	0.0E+00	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
1507	14660	27742	6.62	0.0E+00	M80678.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1507	14660	27743	6.62	0.0E+00	M80678.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1541	14693	27772	2.61	0.0E+00	7706434	NT	Homo sapiens HDG for homolog of Drosophila headcase (LOC51896), mRNA
1555	14708	27788	2.66	0.0E+00	AA481172.1	EST_HUMAN	es64503.1 NC_ CGAP _ GCB1 Homo sapiens cDNA clone IMAGE:815116 5'
1562	14715	27782	27.8	0.0E+00	AF023860.1	NT	Cercopithecus aethiops cyclophilin A mRNA, complete cds
1562	14715	27783	27.8	0.0E+00	AF023860.1	NT	Cercopithecus aethiops cyclophilin A mRNA, complete cds
1564	14717	27796	1.55	0.0E+00	AW976097.1	EST_HUMAN	EST388208 MAGE resequences, MAGN Homo sapiens cDNA
1564	14717	27797	1.55	0.0E+00	AW976097.1	EST_HUMAN	EST388208 MAGE resequences, MAGN Homo sapiens cDNA
1565	14718	27798	1.03	0.0E+00	D10884.1	NT	Bovine mRNA for neurocalcin
1567	14720		3.2	0.0E+00	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
1568	14721	27801	26.69	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1568	14721	27802	26.69	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1570	14723	27804	3.85	0.0E+00	7662406	NT	Homo sapiens KIAA0957 protein (KIAA0957), mRNA
1571	14724		9.78	0.0E+00	7656972	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
1578	14729	27810	64.77	0.0E+00	M88478.1	NT	Human transglutaminase mRNA, complete cds
1578	14731	27811	0.97	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1578	14731	27812	0.97	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1579	16042		32.23	0.0E+00	4508654	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
1580	14732	27813	27.68	0.0E+00	M14199.1	NT	Human laminin receptor (245 epitope) mRNA, 5' end
1592	14746	27828	1.43	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1592	14745	27829	1.43	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1594	14747	27830	13.85	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1602	14755		3.25	0.0E+00	D00333.1	NT	human c-yes-2 gene
1611	14764	27844	11.38	0.0E+00	Z83738.1	NT	H. sapiens H2Bfe gene
1612	14765	27845	2.55	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1612	14765	27846	2.55	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1613	14766	27847	11.09	0.0E+00	AV690831.1	EST_HUMAN	AV690831 GKC Homo sapiens cDNA clone GKCBOF02 5'
1613	14766	27848	11.09	0.0E+00	AV690831.1	EST_HUMAN	AV690831 GKC Homo sapiens cDNA clone GKCBOF02 5'
1616	16043	27851	2.1	0.0E+00	AB040905.1	NT	Homo sapiens mRNA for KIAA1472 protein, partial cds
1618	14770	27852	1.88	0.0E+00	AF167476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1620	14772	27856	6.83	0.0E+00	7002183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1620	14772	27856	6.83	0.0E+00	7002183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1622	14774	27857	56.88	0.0E+00	5729878	NT	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA
1622	14774	27858	56.88	0.0E+00	5729878	NT	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA
1624	14776	27860	1.53	0.0E+00	M81803.1	NT	Human sodium channel mRNA
1639	14791	27876	6.29	0.0E+00	H26873.1	EST_HUMAN	y076c05.s1 Soares adult brain N2b-HB56Y Homo sapiens cDNA clone IMAGE:183948 3'
1648	14801	27887	1.87	0.0E+00	AB046829.1	NT	Homo sapiens mRNA for KIAA1609 protein, partial cds
1648	14801	27888	1.87	0.0E+00	AB046829.1	NT	Homo sapiens mRNA for KIAA1609 protein, partial cds
1668	14820	27903	1.66	0.0E+00	AW444637.1	EST_HUMAN	UI-H-B13-gjw-c-04-0-UJ.st NCI CGAP Sub56 Homo sapiens cDNA clone IMAGE:2733294 3'
1668	14850	27936	2.12	0.0E+00	BE144364.1	EST_HUMAN	MFO-HT0166-191199-004-b11 HT0166 Homo sapiens cDNA
1668	14850	27937	2.12	0.0E+00	BE144364.1	EST_HUMAN	MFO-HT0166-191199-004-b11 HT0166 Homo sapiens cDNA
1702	14854	27941	1.3	0.0E+00	A1768104.1	EST_HUMAN	wg81b07.x1 Soares NSF F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2371477 3' similar to
1703	14855	27942	1.71	0.0E+00	4758513	NT	TR-Q62788 Q62788 CYS2/HIS2 ZINC FINGER PROTEIN ;
1704	14856	27943	2.8	0.0E+00	AF057177.1	NT	Homo sapiens hematopoietic-derived zinc finger protein (HD-ZNF1) mRNA
1708	14859	27947	2.1	0.0E+00	M29580.1	NT	Homo sapiens T-cell receptor gamma V1 gene region
1708	14859	27948	2.1	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1710	14861	27950	0.4	0.0E+00	4557987	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1711	14862	27951	2.42	0.0E+00	7657065	NT	Homo sapiens keratin 18 (KRT18) mRNA
1714	14865	27954	1.08	0.0E+00	BE222374.1	EST_HUMAN	Hu11d05.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3168281 3' similar to TR:O95147 O95147 MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE ;

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1714	14855	27955	1.08	0.0E+00	BE222374.1	EST_HUMAN	hu11d05.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3166281 3' similar to TR:065147 O65147
1716	14856	27957	3.2	0.0E+00	4557610	NT	MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE ; Homo sapiens gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mRNA
1719	14859	27960	4.3	0.0E+00	H30132.1	EST_HUMAN	yo69s08.r1 Soares breast 3NHBst Homo sapiens cDNA clone IMAGE:182240 5' similar to gb:M64089 GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN); yo69s08.r1 Soares breast 3NHBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64089 GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
1719	14859	27961	4.3	0.0E+00	H30132.1	EST_HUMAN	GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
1721	14871		0.97	0.0E+00	A149880.1	EST_HUMAN	qf43f09.x1 Soares testis N-IT Homo sapiens cDNA clone IMAGE:1752809 3'
1722	14872	27963	10.28	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
1722	14872	27984	10.28	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
1725	14876		21.3	0.0E+00	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17) mRNA
1734	14883	27976	6.13	0.0E+00	8923841	NT	Homo sapiens FOXJ2 forthead factor (LOC55810), mRNA
1737	14886	27979	1.83	0.0E+00	5453855	NT	Homo sapiens pericentriolar material 1 (PCM1) mRNA
1741	14890	27983	1.95	0.0E+00	M75950.1	NT	Human hepatocyte growth factor gene, exon 15
1741	14890	27984	1.95	0.0E+00	M75950.1	NT	Human hepatocyte growth factor gene, exon 15
1744	14893	27988	1.11	0.0E+00	4826973	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBM1YA1) mRNA
1747	14896	27990	2.54	0.0E+00	M75950.1	NT	Human hepatocyte growth factor gene, exon 15
1747	14896	27991	2.54	0.0E+00	M75950.1	NT	Human hepatocyte growth factor gene, exon 15
1751	14900	27997	8.57	0.0E+00	AB026542.1	NT	Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds
1753	14902		2.64	0.0E+00	S94400.1	NT	TOR zeta [human, Genomic]mRNA, 365 nt, segment 1 of 8
1762	14911	28005	5.29	0.0E+00	4557538	NT	Homo sapiens solute carrier family 26 (sulfate transporter), member 2 (SLC26A2) mRNA
1784	14933	28027	3.33	0.0E+00	AF273941.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
1828	16047		41.98	0.0E+00	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1830	14978	28073	3.2	0.0E+00	4557558	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1830	14978	28074	3.2	0.0E+00	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1833	14980	28078	2.47	0.0E+00	U63963.1	NT	Homo sapiens CSF-1 receptor (FMS) gene, complete cds, and (SMF) gene, partial cds
1837	16048	28083	7.65	0.0E+00	4605332	NT	Homo sapiens nuclear autoantigenic sperm protein (histone-binding) (NASP) mRNA
1839	14985	28085	1.7	0.0E+00	AA119303.1	EST_HUMAN	zo65c09.s1 Strabagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:563056 3'
1850	14998	28099	24.06	0.0E+00	U14987.1	NT	Human ribosomal protein L21 mRNA, complete cds
1852	14999	28102	0	0.0E+00	AB002331.1	NT	Human mRNA for KIAA0333 gene, partial cds
1853	14999	28103	24.99	0.0E+00	4502284	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF-4) mRNA
1853	14999	28104	24.98	0.0E+00	4502284	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF-4) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1853	14999	28105	24.00	0.0E+00	4502284	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1870	15015	28124	3.11	0.0E+00	4504626	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3) mRNA, and translated products
1870	15015	28125	3.11	0.0E+00	4504626	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3) mRNA, and translated products
1881	15025	28131	7.19	0.0E+00	6005855	NT	Homo sapiens Rafine-derived POU-domain factor-1 (RFF-1), mRNA
1881	15025	28132	7.19	0.0E+00	6005855	NT	Homo sapiens Rafine-derived POU-domain factor-1 (RFF-1), mRNA
1892	15038	28143	1.84	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1152 protein, partial cds
1892	15038	28144	1.84	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1152 protein, partial cds
1895	15038	28146	3.59	0.0E+00	4828783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1895	15038	28147	3.59	0.0E+00	4828783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1896	15039	28148	7.35	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1896	15039	28149	7.35	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1899	15042	28152	2.3	0.0E+00	AW207280.1	EST_HUMAN	U1-H-B11-afn-4-07-0-U1 st NCI CGAP Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'
1899	15042	28153	2.3	0.0E+00	AW207280.1	EST_HUMAN	U1-H-B11-afn-4-07-0-U1 st NCI CGAP Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'
1924	15067	28171	3.22	0.0E+00	BE277465.1	EST_HUMAN	601179164F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239 5'
1924	15067	28172	3.22	0.0E+00	BE277465.1	EST_HUMAN	601179164F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239 5'
1943	15086	28187	1.04	0.0E+00	BE006292.1	EST_HUMAN	RC2-BN0128-200300-012-b04 BN0128 Homo sapiens cDNA
1972	15115	28215	1.62	0.0E+00	7657390	NT	Homo sapiens nuclear protein (NP220), mRNA
1972	15115	28216	1.62	0.0E+00	7657390	NT	Homo sapiens nuclear protein (NP220), mRNA
1975	15118	28218	3.14	0.0E+00	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1975	15118	28219	3.14	0.0E+00	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1981	15124	28226	1.29	0.0E+00	AB037788.1	NT	Homo sapiens mRNA for KIAA1397 protein, partial cds
1985	15128	28230	1.84	0.0E+00	AF167478.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1988	16051	28230	67.92	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1988	16051	28231	67.92	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1991	15133	28238	3.19	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1991	15133	28239	3.19	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1994	15135	28241	2.41	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
1998	15137		6.39	0.0E+00	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2001	15142		5.28	0.0E+00	M55632.1	NT	Human lipodermase 1 pseudogene 1
2003	16052	28248	1.84	0.0E+00	6901805	NT	Homo sapiens butyrophilin, subfamily 3, member A2 (BTN3A2), mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2005	15145	28250	1.3	0.0E+00	BE018063.1	EST_HUMAN	bb73f11.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3048045 6'
2011	15151	28255	1.69	0.0E+00	4809282	NT	Homo sapiens histidine aminotransferase (HAL) mRNA
2011	15151	28255	1.69	0.0E+00	4809282	NT	Homo sapiens histidine aminotransferase (HAL) mRNA
2024	15193		1.04	0.0E+00	AL163252.2	NT	Homo sapiens chromosome 21 segment HS21C052
2026	15157	28272	1.41	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB), mRNA
2026	15167	28273	1.41	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB), mRNA
2027	15168	28274	12.98	0.0E+00	4826638	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
2027	15168	28275	12.98	0.0E+00	4826638	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
2037	15178	28288	2.11	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0790 protein, partial cds
2037	15178	28289	2.11	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0790 protein, partial cds
2043	15184	28293	1.93	0.0E+00	M33782.1	NT	Human TFE3 protein mRNA, partial cds
2043	15184	28294	1.93	0.0E+00	M33782.1	NT	Human TFE3 protein mRNA, partial cds
2045	15188	28296	3.24	0.0E+00	AW193024.1	EST_HUMAN	xl88b01.xt NCI CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2879813 3'
2045	15188	28296	3.24	0.0E+00	AW193024.1	EST_HUMAN	xl88b01.xt NCI CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2879813 3'
2046	15187	28297	9.68	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
2046	15187	28298	9.68	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
2048	15189	28300	1.53	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
2049	15190	28301	1.09	0.0E+00	Z47558.1	NT	H sapiens genes for semenogelin I and semenogelin II
2049	15190	28302	1.09	0.0E+00	Z47558.1	NT	H sapiens genes for semenogelin I and semenogelin II
2056	15197	28311	5.04	0.0E+00	AB040946.1	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
2078	15218	28337	1.85	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2078	15218	28338	1.85	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2109	15247	28368	1.53	0.0E+00	8394546	NT	Homo sapiens chromosome 21 open reading frame 7 (YGB1), mRNA
2112	15250	28370	0.98	0.0E+00	7706742	NT	Homo sapiens TP53TG3a (TP53TG3a), mRNA
2117	15255	28374	35.36	0.0E+00	BE743215.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198 5'
2117	15255	28375	35.36	0.0E+00	BE743215.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198 5'
2119	15257	28378	1.02	0.0E+00	4503848	NT	Homo sapiens coagulation factor IX (plasma thromboplastin component, Christmas disease, hemophilia B) (FX) mRNA
2121	15258	28379	57.63	0.0E+00	AU140831	EST_HUMAN	AU140831 PLACE4 Homo sapiens cDNA clone PLACE4000321 5'
2122	14612	27084	0.87	0.0E+00	7705595	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
2122	14612	27085	0.87	0.0E+00	7705595	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
2124	15260	28380	2.59	0.0E+00	AA077589.1	EST_HUMAN	7B22E-10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E-10
2124	15260	28381	2.59	0.0E+00	AA077589.1	EST_HUMAN	7B22E-10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E-10
2126	15262		3.79	0.0E+00	7687468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2128	15284		1.48	0.0E+00	4985963	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2129	15285	28384	2.9	0.0E+00	Z42369.1	EST_HUMAN	HSC01C021 normalized infant brain cDNA Homo sapiens cDNA clone c-0ic02
2131	15287		2.38	0.0E+00	A1244247.1	EST_HUMAN	q60008.x1 NCL_CGAP_U12 Homo sapiens cDNA clone IMAGE:1988871 3' similar to contains Alu repetitive element
2136	15272	28393	4.37	0.0E+00	BE877225.1	EST_HUMAN	601485148F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887747 5'
2138	15274	28395	2.25	0.0E+00	BF315325.1	EST_HUMAN	601802604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2138	15274	28396	2.25	0.0E+00	BF315325.1	EST_HUMAN	601802604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2144	15280	28404	3.6	0.0E+00	BE697125.1	EST_HUMAN	RC3-CT0419-270700-022-d10 CT0413 Homo sapiens cDNA
2144	15280	28405	3.6	0.0E+00	BE697125.1	EST_HUMAN	RC3-CT0419-270700-022-d10 CT0413 Homo sapiens cDNA
2152	15288	28414	3.43	0.0E+00	L00620.1	NT	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, complete cds
2152	15288	28415	3.43	0.0E+00	L00620.1	NT	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, complete cds
2153	15289	28416	1.11	0.0E+00	AJ297709.1	NT	Homo sapiens mRNA for CDC2L6 protein kinase, (CDC2L6 gene), isoform 1
2158	15294	28420	1.16	0.0E+00	4768469	NT	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
2162	15298	28423	1.94	0.0E+00	BE500995.1	EST_HUMAN	7a3402.x1 NCL_CGAP_G08 Homo sapiens cDNA clone IMAGE:3220610 3' similar to SW-DTD_HUMAN
2182	15317		3.17	0.0E+00	BE767984.1	EST_HUMAN	P50443 SULFATE TRANSPORTER
2183	15318		1.26	0.0E+00	AF018863.1	NT	QV1-GN0085-140800-318-c10 GN0085 Homo sapiens cDNA
2185	15320	28446	4.84	0.0E+00	BF027562.1	EST_HUMAN	Homo sapiens X-linked juvenile retinoschisis protein (XLRSI) gene, exon 8 and complete cds
2186	15321	28447	1.5	0.0E+00	BE072624.1	EST_HUMAN	601672068F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954785 5'
2188	15323	28448	1.29	0.0E+00	AF240786.1	NT	PM0-BT0547-210300-004-F04 BT0547 Homo sapiens cDNA
2190	15325	28450	3.41	0.0E+00	AW752708.1	EST_HUMAN	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2192	15327	28452	6.48	0.0E+00	A1904840.1	EST_HUMAN	IL3-CT0219-271099-022-G10 CT0219 Homo sapiens cDNA
2192	15327	28453	6.48	0.0E+00	A1904840.1	EST_HUMAN	QV-BT065-020399-092 BT065 Homo sapiens cDNA
2225	15359		1.08	0.0E+00	7957262	NT	QV-BT065-020399-092 BT065 Homo sapiens cDNA
2249	15362		1.62	0.0E+00	L14787.1	NT	Homo sapiens potassium large conductance calcium-activated channel, subfamily M, beta member 3-like (KCMB3L), mRNA
2259	15392	28518	1.26	0.0E+00	BE274896.1	EST_HUMAN	Human DNA-binding protein mRNA, 3' end
2261	15394	28521	0.94	0.0E+00	D87895.1	NT	601122338F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346888 5'
2262	15395	28522	23.12	0.0E+00	AV738288.1	EST_HUMAN	Human mRNA for KIAA0244 gene, partial cds
2262	15395	28523	23.12	0.0E+00	AV738288.1	EST_HUMAN	AV738288 CB Homo sapiens cDNA clone CBNBD8 5'
2264	15397	28525	2.57	0.0E+00	AA931691.1	EST_HUMAN	AV738288 CB Homo sapiens cDNA clone CBNBD8 5'
2268	15401	28529	24.38	0.0E+00	BF344434.1	EST_HUMAN	cc32601.s1 NCL_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1667898 3'
2269	15402	28530	40.14	0.0E+00	BE748899.1	EST_HUMAN	602014829F1 NCL_CGAP_Bim64 Homo sapiens cDNA clone IMAGE:4160734 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2272	15405	28533	5.56	0.0E+00	BF377897.1	EST_HUMAN	OM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2272	15405	28534	5.56	0.0E+00	BF377897.1	EST_HUMAN	OM1-TN0141-260900-439-b08 TN0141 Homo sapiens cDNA
2276	16059	28539	4.06	0.0E+00	BF313617.1	EST_HUMAN	601800281F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:412922 5'
2279	15411	28542	3.13	0.0E+00	BE018750.1	EST_HUMAN	b884602.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3049082 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN;
2281	15413	28544	1.68	0.0E+00	AA042813.1	EST_HUMAN	z433c07.s1 Soares_pregnant_uterus_Nb1PU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2281	15413	28545	1.68	0.0E+00	AA042813.1	EST_HUMAN	z433c07.s1 Soares_pregnant_uterus_Nb1PU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2289	15421	28553	3.06	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2289	15421	28554	3.06	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2290	15422	28555	3.72	0.0E+00	7682401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2290	15422	28556	3.72	0.0E+00	7682401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2295	15427	28558	2.34	0.0E+00	U36264.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
2298	15428	28561	1.02	0.0E+00	AA282281.1	EST_HUMAN	z412b10.l1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:712891 5'
2313	15445	28579	7.92	0.0E+00	4557566	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
2320	15452	28584	2.63	0.0E+00	7682401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2327	15459	28592	3.44	0.0E+00	BE895281.1	EST_HUMAN	601433325F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918607 6'
2331	15463	28596	1.51	0.0E+00	BE905563.1	EST_HUMAN	601496208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 6'
2331	15463	28597	1.51	0.0E+00	BE905563.1	EST_HUMAN	601496208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5'
2333	15484	28600	1.83	0.0E+00	AB037764.1	NT	Homo sapiens mRNA for KIAA1968 protein, partial cds
2375	15506	28632	4.35	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 8 (DEF8), mRNA
2375	15506	28633	4.35	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 8 (DEF8), mRNA
2378	15507	28634	2.67	0.0E+00	AA076404.1	EST_HUMAN	z439c07.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1674828 3'
2378	15509	28636	2.96	0.0E+00	AA429001.1	EST_HUMAN	z478a11.l1 Soares_fetal_tetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:759740 5'
2378	15509	28637	2.96	0.0E+00	AA429001.1	EST_HUMAN	z478a11.l1 Soares_fetal_tetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:759740 5'
2380	15511	28639	1.82	0.0E+00	BF347039.1	EST_HUMAN	602021848F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4157339 5'
2385	15516	28645	1.33	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
2385	15516	28646	1.33	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
2386	15517	28647	2.34	0.0E+00	6325466	NT	Homo sapiens flavin containing monooxygenase 3 (FMO3), mRNA
2386	15517	28647	2.34	0.0E+00	6325466	NT	Homo sapiens flavin containing monooxygenase 3 (FMO3), mRNA
2393	15524	28653	2.36	0.0E+00	BE076095.1	EST_HUMAN	722a02.x1 NCI_CGAP_GCL1 Homo sapiens cDNA clone IMAGE:3295370 3' similar to TR:O94939 O94939 KIAA0857 PROTEIN;
2396	15527	28655	5.46	0.0E+00	AF044571.1	NT	Homo sapiens phosphotyrosine kinase alpha subunit (PHKA2) gene, exon 32
2397	15528	28658	2.6	0.0E+00	AI625542.1	EST_HUMAN	t957c08.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:2283182 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2399	15530	28657	1.5	0.0E+00	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
2402	15533	28659	2.22	0.0E+00	7682401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2402	15533	28660	2.22	0.0E+00	7682401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2405	15536	28663	3.83	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2405	15536	28664	3.83	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2424	15553	28678	3.04	0.0E+00	5174678	NT	Homo sapiens signal regulatory protein, beta, 1 (SIRP-BETA-1) mRNA
2428	15556	28683	3.56	0.0E+00	AU131142.1	EST_HUMAN	AU131142 NT2RP3 Homo sapiens cDNA clone NT2RP3002064 5'
2429	15557	28683	8.82	0.0E+00	BE794028.1	EST_HUMAN	601589843F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3941003 5'
2430	15558	28684	3.98	0.0E+00	7682017	NT	Homo sapiens KIAA0244 protein (KIAA0244), mRNA
2431	15559	28685	1.39	0.0E+00	4768497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2431	15559	28686	1.39	0.0E+00	4768497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
							Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 6 (CYP3A6) gene, partial cds
2432	15560		7.14	0.0E+00	AF280107.1	NT	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2434	15562	28688	10.61	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2434	15562	28689	10.61	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2434	15562	28690	10.61	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2462	15580		1.03	0.0E+00	BE814424.1	EST_HUMAN	MRO-BN0070-080800-028-d12 BN0070 Homo sapiens cDNA
2485	15812	28735	1.14	0.0E+00	AU119682.1	EST_HUMAN	AU119682 HEMBA1 Homo sapiens cDNA clone HEMBA1006155 5'
							alpha02.x1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:1660663 3' similar to TR:O08682
2487	15814		4.63	0.0E+00	A042038.1	EST_HUMAN	O08682 230KDA PHOSPHATIDYLINOSITOL 4-KINASE
2489	15816	28737	0.94	0.0E+00	8923020	NT	Homo sapiens hypothetical protein FLJ20683 (FLJ20683), mRNA
2492	15819		1.35	0.0E+00	BE895805.1	EST_HUMAN	601432608F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3918188 5'
2503	15830		2.22	0.0E+00	AB005622.1	EST_HUMAN	AB005622 Hela cDNA (T.Norne) Homo sapiens cDNA similar to adenylate kinase isozyme 2
2505	15832	28752	8.05	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
2510	15836	28756	1.99	0.0E+00	D85606.1	NT	Homo sapiens gene for cholecystikinin type-A receptor, complete cds
2510	15836	28757	1.99	0.0E+00	D85606.1	NT	Homo sapiens gene for cholecystikinin type-A receptor, complete cds
2520	15848	28769	2.42	0.0E+00	AF106275.1	NT	Homo sapiens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6
2524	15849	28773	0.98	0.0E+00	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4158670 5'
2530	15855	28780	3.64	0.0E+00	5728177	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
2538	15863	28786	1.02	0.0E+00	U13668.1	NT	Human G protein-coupled receptor (GPR1) gene, complete cds
2538	15863	28787	1.02	0.0E+00	U13668.1	NT	Human G protein-coupled receptor (GPR1) gene, complete cds
2539	15864	28788	28.11	0.0E+00	BF569144.1	EST_HUMAN	602184558F1 NIH_MGC 42 Homo sapiens cDNA clone IMAGE:4300383 3'
2547	15872	28796	4.18	0.0E+00	AW46622.1	EST_HUMAN	ha04h04.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2872759 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2650	15676	28798	3.03	0.0E+00	AW501010.1	EST_HUMAN	UI-H-BP0p-ais-0-07-0-UI.s1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072780 5'
2675	15700		2.02	0.0E+00	AW813853.1	EST_HUMAN	RC3-ST0197-300300-016-c04 ST0197 Homo sapiens cDNA
2678	15704	28824	7.28	0.0E+00	BE795542.1	EST_HUMAN	601592530F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946518 5'
2579	15135	28241	1.12	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
2680	15705	28825	1.44	0.0E+00	BF509482.1	EST_HUMAN	UI-H-B4-ec2-b-08-0-UI.s1 NCL_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086535 3'
2683	15708	28827	2.21	0.0E+00	Z32684.2	NT	Homo sapiens mRNA for membrane transport protein (X1 gene)
2685	15710		5.17	0.0E+00	645387.1	NT	Homo sapiens platelet-derived growth factor receptor-like (PDGFR.L) mRNA
2687	15712	28830	1.07	0.0E+00	BE910378.1	EST_HUMAN	601503356F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3905148 5'
2688	15713	28831	2.99	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POMT21 (POM121L), mRNA
2689	15714	28832	3.09	0.0E+00	U69239.1	NT	Human Sec62 (Sec62) mRNA, complete cds
2696	15720	28838	1.66	0.0E+00	BE886490.1	EST_HUMAN	601508211F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3908866 5'
2698	15722	28842	13.07	0.0E+00	BE875311.1	EST_HUMAN	601499241F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3891371 5'
2698	15722	28843	13.07	0.0E+00	BE875311.1	EST_HUMAN	601499241F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3891371 5'
2699	15723	28844	1.12	0.0E+00	AF245505.1	NT	Homo sapiens adiclon mRNA, complete cds
2616	15740	28852	1.83	0.0E+00	BE938821.1	EST_HUMAN	601064738F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3451161 5'
2623	15746	28860	3.66	0.0E+00	AU143277.1	EST_HUMAN	AU143277 Y79AA1 Homo sapiens cDNA clone Y79AA1001673 5'
2623	15746	28861	3.66	0.0E+00	AU143277.1	EST_HUMAN	AU143277 Y79AA1 Homo sapiens cDNA clone Y79AA1001673 5'
2624	15747	28862	1.25	0.0E+00	BE282898.1	EST_HUMAN	601105312F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887955 5'
2624	15747	28863	1.25	0.0E+00	BE282898.1	EST_HUMAN	601105312F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887955 5'
							7q27h12.x1 NCL_CGAP_GC8 Homo sapiens cDNA clone IMAGE: 3' similar to TR-000246 O00246
							HYPOTHETICAL 9.3 KD PROTEIN ;
2625	15748	28864	1.04	0.0E+00	BF223041.1	EST_HUMAN	Homo sapiens adiclon mRNA, complete cds
2628	15751	28868	8.3	0.0E+00	AF245505.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2664	15000	28901	2.18	0.0E+00	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2664	15000	28902	2.18	0.0E+00	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2665	15786		2.35	0.0E+00	BF513835.1	EST_HUMAN	UI-H-BW1-emp-4-12-0-UI.s1 NCL_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070631 3'
2675	15785	28912	32.6	0.0E+00	BF204131.1	EST_HUMAN	601866073F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4111411 5'
2675	15785	28913	32.6	0.0E+00	BF204131.1	EST_HUMAN	601866073F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4111411 5'
2678	15798	28915	2.15	0.0E+00	AB037742.1	NT	Homo sapiens mRNA for KIAA1321 protein, partial cds
							Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 28kD (TAF2i)
							mRNA
2679	15789	28916	2.52	0.0E+00	5032150	NT	Homo sapiens mRNA for KIAA1438 protein, partial cds
2681	15801	28918	8.53	0.0E+00	AB037850.1	NT	Homo sapiens mRNA for KIAA1438 protein, partial cds
2682	15802	28919	1.16	0.0E+00	BE795445.1	EST_HUMAN	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2682	15802	28920	1.16	0.0E+00	BE795445.1	EST_HUMAN	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2690	15810		2.75	0.0E+00	BE792472.1	EST_HUMAN	601584830F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3939222 5'

Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2700	15819	28035	2.52	0.0E+00	4504888	NT	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1) mRNA
2710	15828		1.16	0.0E+00	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2711	15829	28042	5.67	0.0E+00	AF173227.1	NT	Homo sapiens guanylate cyclase-activating protein 2 (GUCA1B) gene, exon 1
2715	15833	28043	1.07	0.0E+00	AB011108.1	NT	Homo sapiens mRNA for KIAA0538 protein, partial cds
2718	15836	28046	0.86	0.0E+00	AU133385.1	EST_HUMAN	AL133385 NT2RP4 Homo sapiens cDNA clone NT2RP4001964 5'
2721	15839	28049	1.16	0.0E+00	AU130403.1	EST_HUMAN	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2721	15839	28050	1.16	0.0E+00	AU130403.1	EST_HUMAN	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2724	15842	28053	1.66	0.0E+00	AW887015.1	EST_HUMAN	RC1-OT0086-220300-011-407 OT0086 Homo sapiens cDNA
2727	15845	28056	4.83	0.0E+00	BE383165.1	EST_HUMAN	601298714F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628923 5'
2728	15846		2.8	0.0E+00	BE531263.1	EST_HUMAN	601278373F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610287 5'
2763	15878	28087	1	0.0E+00	AB037732.1	NT	Homo sapiens mRNA for KIAA1311 protein, partial cds
2785	15901		11.89	0.0E+00	AA316723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L28
2789	15905	29013	4.04	0.0E+00	U38253.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 5
2791	15907	29015	3.72	0.0E+00	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
2792	15908	29016	2.32	0.0E+00	AB051828.1	NT	Homo sapiens hG28K mRNA for GTP-binding protein like 1, complete cds
2797	15912	29020	11.38	0.0E+00	BE786378.1	EST_HUMAN	601501891F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945883 5'
2800	16072	29024	17.3	0.0E+00	BE563433.1	EST_HUMAN	601335485F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3689564 5'
2801	15915		3.26	0.0E+00	AV721647.1	EST_HUMAN	AV721647 HTB Homo sapiens cDNA clone HTBBYE09 5'
2803	15917	29027	2.18	0.0E+00	5174488	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2803	15917	29028	2.18	0.0E+00	5174488	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2804	15918	29029	2.21	0.0E+00	AF290195.1	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2805	15919		47.74	0.0E+00	AV651088.1	EST_HUMAN	Homo sapiens hypertension-related calcium-regulated gene mRNA, complete cds
2806	15920	29030	5.84	0.0E+00	BF377897.1	EST_HUMAN	AV651088 GLC Homo sapiens cDNA clone GLCCLD07 3'
2806	15920	29031	5.84	0.0E+00	BF377897.1	EST_HUMAN	AV651088 GLC Homo sapiens cDNA clone GLCCLD07 3'
2810	15924	29034	1.15	0.0E+00	4757963	NT	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2810	15924	29035	1.15	0.0E+00	4757963	NT	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2813	15927	29039	21.06	0.0E+00	BE747193.1	EST_HUMAN	Homo sapiens cerebellar degeneration-related protein (34kd) (CDR1) mRNA
							Homo sapiens cerebellar degeneration-related protein (34kd) (CDR1) mRNA
							601580903F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3829472 5'
							601580903F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3829472 5'
							Y955110.1 Soares melanocytes 2Nbr-IM Homo sapiens cDNA clone IMAGE:273283 5' similar to PIR-A45773
							A45773 ketch protein, long form - fruit fly;
2814	15928	29040	1.05	0.0E+00	N44974.1	EST_HUMAN	RC4-HT0587-170300-012-411 HT0587 Homo sapiens cDNA
2816	15930	29042	1.15	0.0E+00	BE176836.1	EST_HUMAN	RC4-HT0587-170300-012-411 HT0587 Homo sapiens cDNA
2827	15941		1.13	0.0E+00	AL193201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2828	15942	29052	3.19	0.0E+00	BF514110.1	EST_HUMAN	LI-H-BW1-ammw-e-07-Q-U1.s1 NC1 CGAP Sub7 Homo sapiens cDNA clone IMAGE:3071340 3'

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2835	15040		1.67	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2841	15055	28082	1.08	0.0E+00	7705275	NT	Homo sapiens angiotensin-3 (ANG-3), mRNA
2841	15055	28083	1.08	0.0E+00	7705275	NT	Homo sapiens angiotensin-3 (ANG-3), mRNA
2842	15056	28084	5.05	0.0E+00	BF077694.1	EST_HUMAN	602085570F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248915 5'
2848	15062	28072	1.33	0.0E+00	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
2852	15066	28075	17.21	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTC Homo sapiens cDNA clone HTCCCA03 5'
2852	15066	28076	17.21	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTC Homo sapiens cDNA clone HTCCCA03 5'
2854	15068		14.75	0.0E+00	A1878163.1	EST_HUMAN	au55404.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518663 5' similar to
2857	15071	28081	2.14	0.0E+00	BF630691.1	EST_HUMAN	SW_R13A_HUMAN P40428 60S RIBOSOMAL PROTEIN L13A ;
2858	15072	28082	71.97	0.0E+00	BE872768.1	EST_HUMAN	602071957F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:4214678 5'
2860	15074	28083	2.42	0.0E+00	AU131494.1	EST_HUMAN	601450012F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3854842 5'
2860	15074	28084	2.42	0.0E+00	AU131494.1	EST_HUMAN	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002672 5'
2861	15075	28085	64.06	0.0E+00	BE300344.1	EST_HUMAN	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002672 5'
2861	15075	28086	64.06	0.0E+00	BE300344.1	EST_HUMAN	600844784F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2860808 5'
2867	13415	26444	5.26	0.0E+00	S76830.1	NT	600944784F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2860808 5'
2870	15082		1.64	0.0E+00	AB033281.1	NT	glycoprotein D=Duffy group antigen [human, blood, Genomic DNA, 3088 nt]
2870	13833	26978	1.89	0.0E+00	AF284750.1	NT	Homo sapiens BTCP2 mRNA for F-box and WD-repeats protein isoform C, complete cds
2876	13833	26979	1.89	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2880	14230	27287	2.04	0.0E+00	4503202	NT	Homo sapiens ALR-like protein mRNA, partial cds
2880	14230	27288	2.04	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)
2887	16076	28094	3.73	0.0E+00	X85980.1	NT	(CYP1B1) mRNA
2888	16077		1.28	0.0E+00	AF089824.1	NT	Homo sapiens cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)
2900	16079		1.91	0.0E+00	AB040960.1	NT	H. sapiens serine hydroxymethyltransferase pseudogene
2907	16085	28099	4.25	0.0E+00	M80802.1	NT	Homo sapiens 5-aminolevulinic synthase 2 (ALAS2) gene, complete cds
2911	16089	28102	6.5	0.0E+00	BE154504.1	NT	Homo sapiens mRNA for KIAA1527 protein, partial cds
2914	16092	28104	0.93	0.0E+00	BE154504.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C001
2914	16092	28105	0.93	0.0E+00	BE154504.1	EST_HUMAN	Human ALINAK nucleoprotein mRNA, 5' end
2916	16094		2.05	0.0E+00	X79428.1	NT	PMO-HT0343-281289-003-e02 HT0343 Homo sapiens cDNA
2918	16096		2.6	0.0E+00	AL163288.2	NT	PMO-HT0343-281289-003-e02 HT0343 Homo sapiens cDNA
2918	16097	28108	1.3	0.0E+00	7019584	NT	H. sapiens lds gene for HLH type transcription factor
2919	16097	28109	1.3	0.0E+00	7019584	NT	Homo sapiens chromosome 21 segment HS21C068
							Homo sapiens zinc finger protein 221 (ZNF221), mRNA
							Homo sapiens zinc finger protein 221 (ZNF221), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2919	16097	29110	1.3	0.0E+00	7018584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2921	16099	29111	15.04	0.0E+00	M88478.1	NT	Human transglutaminase mRNA, complete cds
2926	16103	29117	30.49	0.0E+00	D50657.1	NT	Homo sapiens gamma-globulin actin (ACTGP3) pseudogene
2926	16103	29118	30.49	0.0E+00	D50657.1	NT	Homo sapiens gamma-globulin actin (ACTGP3) pseudogene
2928	16106	29121	3.42	0.0E+00	AL039857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
2930	16107		6.12	0.0E+00	Y10658.1	NT	H. sapiens mRNA for nuclear DNA helicase II
2931	16108		1.13	0.0E+00	AF152303.1	NT	Homo sapiens protocadherin alpha C1 (PCDH-alpha-C1) mRNA, complete cds
2932	16109	29122	74.83	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2932	16109	29123	74.83	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2944	16121	29134	2.54	0.0E+00	4507280	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2947	16124	29138	1.19	0.0E+00	AL047599.1	EST_HUMAN	DKFZp588G0621_r1 588 (synonym: huf1) Homo sapiens cDNA clone DKFZp588G0621
2948	16125	29139	0.98	0.0E+00	7681883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
2948	16125	29140	0.98	0.0E+00	7681883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
2949	16126		2.44	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSFG4), mRNA
2952	16129	29142	5.16	0.0E+00	BE081893.1	EST_HUMAN	QV2-BT0638-130400-138-H03 BT0638 Homo sapiens cDNA
2952	16129	29143	5.16	0.0E+00	BE081893.1	EST_HUMAN	QV2-BT0638-130400-138-H03 BT0638 Homo sapiens cDNA
2958	16135	29151	0.77	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
2958	16135	29152	0.77	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
2961	16138	29156	2.3	0.0E+00	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
2961	16138	29157	2.3	0.0E+00	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
2962	16139		1.3	0.0E+00	AA215578.1	EST_HUMAN	z86b11.s1 NCL_CGAP_G031 Homo sapiens cDNA clone IMAGE:883517 3' similar to contains Alu repetitive element;
2968	16145		3.89	0.0E+00	Y19210.1	NT	Homo sapiens Hb5 gene for hair keratin, exons 1 to 9
2972	16148	29167	1.05	0.0E+00	4768279	NT	Homo sapiens EphA4 (EPHA4) mRNA
2974	16160	29170	25.96	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2975	16151		1.15	0.0E+00	AI581002.1	EST_HUMAN	U18d07.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2167881 3' similar to TRC016247
2975	16151		1.15	0.0E+00	AI581002.1	EST_HUMAN	U18d07.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2167881 3' similar to TRC016247
2977	16153	29174	1.18	0.0E+00	P62740	SWISSPROT	O16247 F44E7.2 PROTEIN.;
2978	16154	29175	1.04	0.0E+00	AF152338.1	NT	ZINC FINGER PROTEIN 132
2984	16170	29187	3.4	0.0E+00	AB033093.1	NT	Homo sapiens protocadherin gamma C4 (PCDH-gamma-C4) mRNA, complete cds
2984	16170	29188	3.4	0.0E+00	AB033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
2985	16171		6.2	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
2985	16171		6.2	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2895	16171	28190	6.2	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds
2898	16174	28193	3.31	0.0E+00	7681903	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2898	16174	28194	3.31	0.0E+00	7681903	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2899	16175	28195	4.83	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MILL T4) mRNA
2899	16175	28196	4.83	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MILL T4) mRNA
3003	16178	28199	1.29	0.0E+00	BF110702.1	EST_HUMAN	7n40d03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3867028 3' similar to TR-Q9VLN1
3003	16178	28200	1.29	0.0E+00	BF110702.1	EST_HUMAN	7n40d03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3867028 3' similar to TR-Q9VLN1
3011	16187	28211	3.91	0.0E+00	4505084	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
3011	16187	28212	3.91	0.0E+00	4505084	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
3019	16195	28218	1.51	0.0E+00	4758827	NT	Homo sapiens neuritin III (NFXN3) mRNA
3022	16188	28221	0.88	0.0E+00	AB033034.1	NT	Homo sapiens mRNA for KIAA1208 protein, partial cds
3024	16200	28223	9.8	0.0E+00	AF106275.1	NT	Homo sapiens immunoglobulin-like transcript 1c variant 4 (LIT1c) gene, exon 6
3038	16214	28242	1.44	0.0E+00	AF149880.1	EST_HUMAN	qf43f09.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752809 3'
3045	16221	28243	0.71	0.0E+00	AF281074.1	NT	Homo sapiens neuropilin 2 (NRP2) gene, complete cds, alternatively spliced
3045	16221	28243	0.71	0.0E+00	AF281074.1	NT	Homo sapiens neuropilin 2 (NRP2) gene, complete cds, alternatively spliced
3048	16222	28244	0.82	0.0E+00	4506118	NT	Homo sapiens prospero-related homeobox 1 (PROX1) mRNA
3047	16223	28245	2.81	0.0E+00	AB004894.1	NT	Homo sapiens mRNA for PKU-alpha, partial cds
3057	16233	28252	1.85	0.0E+00	7682273	NT	Homo sapiens KIAA0737 gene product (KIAA0737), mRNA
3058	16234	28253	1.82	0.0E+00	AW012526.1	EST_HUMAN	h003f08.x1 NCI_CGAP_Kcl11 Homo sapiens cDNA clone IMAGE:2954055 3' similar to TR-Q60407
3059	16235	28254	2.4	0.0E+00	5729755	NT	PAC CLONE DJ1168D11 FROM 7P21-P22, COMPLETE SEQUENCE :
3059	16235	28255	2.4	0.0E+00	5729755	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
3067	16243	28263	1.17	0.0E+00	AF114488.1	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
3067	16243	28264	1.17	0.0E+00	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
3061	16267	28286	0.61	0.0E+00	AL163246.2	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
3063	16269	28286	1.29	0.0E+00	M74099.1	NT	Homo sapiens chromosome 21 segment HS21C048
3102	16278	28292	0.88	0.0E+00	4506882	NT	Human displacement protein (GCAAT) mRNA
3109	16285	28303	3.53	0.0E+00	AF195953.1	NT	Homo sapiens semenogelin I (SEMG1) mRNA
3112	16288	28303	4.9	0.0E+00	5579469	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
3112	16288	28304	4.9	0.0E+00	5579469	NT	Homo sapiens heat shock 70kD protein 1 (HSPA1A), mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3114	16280		7.27	0.0E+00	AL359403.1	NT	isoform 2 of a novel human mRNA from chromosome 22
3119	16295	28309	1.88	0.0E+00	AF017433.1	NT	Homo sapiens putative transcription factor CR63 (CR63) mRNA, partial cds
							Homo sapiens transcription factor (GHM) enhancer 3, JM11 protein, JM4 protein, JM5 protein, T64 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel α
3122	16298		2.21	0.0E+00	AF198779.1	NT	Homo sapiens interleukin 2 receptor, beta (IL2RB) mRNA
3124	16300	28313	3.78	0.0E+00	4504884	NT	Human germline gene 16.1 for Ig lambda L-chain C region (IgL-C16.1)
3145	16321	28333	3.23	0.0E+00	X03528.1	NT	Homo sapiens F-box protein FBL5 (FBL5) mRNA, complete cds
3151	16328		1.92	0.0E+00	AF198955.1	NT	Homo sapiens melanoma-associated antigen (MAGE-C1) gene, complete cds
3155	16330	28340	1.76	0.0E+00	AF064989.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3175	16350	28358	4.71	0.0E+00	AF285208.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
3176	16351	28357	10.17	0.0E+00	AF149773.1	NT	Homo sapiens KIAA0468 gene product (KIAA0468) mRNA
3181	16356	28361	3.92	0.0E+00	7662139	NT	Homo sapiens olfactory receptor-like protein (OLFR 428) gene, OLFR 428-8110 allele, partial cds
3182	16357	28362	1.29	0.0E+00	AF042075.1	NT	Homo sapiens olfactory receptor-like protein (OLFR 428) gene, OLFR 428-8110 allele, partial cds
							XP_22407.1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2884733 3' similar to
3187	16392	28368	1.19	0.0E+00	AW188148.1	EST_HUMAN	SW-RNP_HYDHY P00877 RIBONUCLEASE PANCREATIC;
							Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
3210	16384	28385	3.81	0.0E+00	4828783	NT	Human ferritin heavy chain mRNA, complete cds
3219	16393	29404	20.83	0.0E+00	L20941.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3222	16396	29407	1.05	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3222	16398	29408	1.05	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
							ye82703.s1 Stragene lung (#937210) Homo sapiens cDNA clone IMAGE:119453 3' similar to SP-S28539
3229	16403	29415	25.61	0.0E+00	T94870.1	EST_HUMAN	S28539 BASIC PROTEIN, 28K -;
3244	16418	29433	0.93	0.0E+00	BF243336.1	EST_HUMAN	U01878507F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4107433 5'
3246	16419	29434	1.22	0.0E+00	AI869088.1	EST_HUMAN	WU12110.x1 NC1_CGAP_G06 Homo sapiens cDNA clone IMAGE:2516903 3'
3250	16424	29441	5.36	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
3260	16424	29442	5.36	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
							U038909.x1 NC1_CGAP_P128 Homo sapiens cDNA clone IMAGE:2253376 3' similar to SW-RASD_DICD1
3262	16426	29444	1.01	0.0E+00	AI685960.1	EST_HUMAN	P03967 RAS-LIKE PROTEIN RASD;
3262	16436	29455	1.39	0.0E+00	4759827	NT	Homo sapiens neurokinin III (NRXN3) mRNA
3262	16436	29456	1.39	0.0E+00	4759827	NT	Homo sapiens neurokinin III (NRXN3) mRNA
3270	16444	29464	9.59	0.0E+00	4504658	NT	Homo sapiens interleukin 1 receptor, type I (IL1R1) mRNA
3288	16462	29482	4.54	0.0E+00	M28639.1	NT	Homo sapiens nuclear phosphoprotein B23 (NPM1) mRNA, complete cds
							Homo sapiens solute carrier family 25 (mitochondrial carrier, aspartate nucleoside translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
3292	16468	29485	1.92	0.0E+00	4502098	NT	

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3298	16472	29483	0.78	0.0E+00	4758055	NT	Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA
3298	16472	29484	0.78	0.0E+00	4758055	NT	Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA
3300	16474	29495	28.49	0.0E+00	AA774783.1	EST_HUMAN	aa87b11.s1 Striatogene schizo brain S11 Homo sapiens cDNA clone IMAGE:871133 3'
3308	16482	29503	8.38	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3308	16482	29504	8.38	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3320	16493	29510	3.04	0.0E+00	4557590	NT	Homo sapiens fibrillin 1 (Marfan syndrome) (FBN1) mRNA
3326	16498	29517	1.01	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
3334	16507		10.18	0.0E+00	M65189.1	NT	Human connexin 43 processed pseudogene
3335	16508	29524	0.95	0.0E+00	AF019413.1	NT	Homo sapiens HLA class III region containing tenascin X (tenascin-X) gene, partial cds; cytochrome P450 21-hydroxylase (CYP21B), complement component C4 (C4B) G11, hepcase (SK12W), RD, complement factor B (BF), and complement component C2 (C2) genes, >
3338	16511	29527	4.06	0.0E+00	AF055084.1	NT	Homo sapiens very large G-protein coupled receptor-1 (VLGR1) mRNA, complete cds
3348	16464	29535	1.34	0.0E+00	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP-1), mRNA
3348	16464	29536	1.34	0.0E+00	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP-1), mRNA
3363	16535	29549	3.56	0.0E+00	AF265208.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3364	16536	29550	0.95	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
3377	16549	29563	1.42	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
3388	16558	29573	0.72	0.0E+00	4895312	NT	Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA
3401	16571	29589	3.14	0.0E+00	AI589294.1	EST_HUMAN	tr58908.x2 NCJ CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2222635 3' similar to SW:RL11_RAT
3404	16574	29589	9.94	0.0E+00	AW955400.1	EST_HUMAN	P25121 60S RIBOSOMAL PROTEIN L11, contains Alu repetitive element
3412	16581	29596	2.41	0.0E+00	AF128893.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-8
3412	16581	29597	2.41	0.0E+00	AF128893.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-8
3413	16582	29598	1.03	0.0E+00	7657213	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-8
3413	16582	29599	1.03	0.0E+00	7657213	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-8
3416	16585	29601	1.29	0.0E+00	4502582	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
3416	16585	29602	1.29	0.0E+00	4502582	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
3419	16588	29604	11.02	0.0E+00	AF111163.1	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3421	16590	29606	1.02	0.0E+00	AB040940.1	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3428	16596	29612	0.79	0.0E+00	BE778089.1	EST_HUMAN	Homo sapiens pyrin (MEFV) gene, complete cds
							Homo sapiens mRNA for KIAA1607 protein, partial cds
							601464095F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3968246 5'
							wb10R4.x1 NCJ CGAP_GCS Homo sapiens cDNA clone IMAGE:2305279 3' similar to TR:Q91928 Q91929
3441	16609	29627	0.67	0.0E+00	AI632598.1	EST_HUMAN	ZINC FINGER PROTEIN ;
3483	16651	29687	10	0.0E+00	AU123664.1	EST_HUMAN	AU123664 NT2RM2 Homo sapiens cDNA clone NT2RM2000735 5'
3492	16659	29671	1.16	0.0E+00	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51694), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3483	16680	29672	1.26	0.0E+00	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1-a isoform (CACNA1I) mRNA, complete cds
3498	16685		0.94	0.0E+00	AW867015.1	EST_HUMAN	MR1-SN0033-100400-001-c08 SN0033 Homo sapiens cDNA
3511	16677	29687	2.02	0.0E+00	7682401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3511	16677	29688	2.02	0.0E+00	7682401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3512	16678	29689	0.92	0.0E+00	4502398	NT	Homo sapiens beaded filament structural protein 1, filensin (BFSBP1) mRNA
							Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2 (LILRA2), mRNA
3514	16680	29690	2.35	0.0E+00	5803067	NT	
3523	16907	29015	3.08	0.0E+00	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
3528	16693	29703	2.46	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
3532	16697	29708	5.5	0.0E+00	K02380.1	NT	Bacteriophage P1 replication region including repA, parA, and parB genes and IncA, IncB, and IncC incompatibility determinants
3535	16700	29711	1.38	0.0E+00	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
3538	16703	29714	1.83	0.0E+00	4557748	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET) mRNA
							wp14d10.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2464819 3' similar to TR-O73634 O73634
3544	16709	29719	4.17	0.0E+00	A0955159.1	EST_HUMAN	NEURAL CELL ADHESION MOLECULE ;
3544	16709	29720	4.17	0.0E+00	A0955159.1	EST_HUMAN	wp14d10.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2464819 3' similar to TR-O73634 O73634
3548	16713	29725	1.91	0.0E+00	AJ278120.1	NT	NEURAL CELL ADHESION MOLECULE ;
3555	16720	29734	6.38	0.0E+00	6552332	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3556	16720	29735	6.38	0.0E+00	6552332	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3560	16725	29741	1.41	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
3566	16731	29747	6.78	0.0E+00	U43283.1	NT	Human MDS1A (AML1/MDS1 fusion) mRNA, partial cds
3574	16739	29755	2.57	0.0E+00	AF045452.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
3574	16739	29756	2.57	0.0E+00	AF045452.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
3582	16747	29766	1.18	0.0E+00	AF231922.1	NT	Homo sapiens chromosome 21 unknown mRNA
3594	16758	29773	3.28	0.0E+00	BE304791.1	EST_HUMAN	601143853F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
3594	16758	29774	3.28	0.0E+00	BE304791.1	EST_HUMAN	601143853F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
3597	16761	29777	1.04	0.0E+00	4828795	NT	Homo sapiens potassium voltage-gated channel, Isk-related family, member 2 (KCNE2) mRNA
3600	16764	29780	0.8	0.0E+00	O14867	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB and CNC HOMOLOG 1) (HA2303)
							ts35g12.x1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:2088742 3' similar to TR-O00498
3603	16767	29782	0.89	0.0E+00	A0944007.1	EST_HUMAN	000498 MYASTHENIA GRAVIS AUTOANTIGEN GRAVIN ;
3621	16785	29801	0.6	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1153 protein, partial cds
3621	16785	29802	0.6	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1153 protein, partial cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3623	16787	29803	0.68	0.0E+00	AA456282.1	EST_HUMAN	z689h04.1 Soares_NIH-MPU_S1 Homo sapiens cDNA clone IMAGE:911927 5'
3623	16787	29804	0.68	0.0E+00	AA456282.1	EST_HUMAN	z689h04.1 Soares_NIH-MPU_S1 Homo sapiens cDNA clone IMAGE:911927 5'
3630	16784	29811	1.45	0.0E+00	AV701868.1	EST_HUMAN	AV701868 ADB Homo sapiens cDNA clone ADBDAI-406 5'
3631	16785	29812	4.48	0.0E+00	4506884	NT	Homo sapiens semicopelin II (SEMIG2) mRNA
3633	16787		1.17	0.0E+00	AF078988.1	NT	Homo sapiens homologous yeast-44.2 protein mRNA, complete cds
3642	16808	29820	1.34	0.0E+00	AL133204.1	NT	Novel human gene mapping to chromosome X
3644	16807	29821	1.16	0.0E+00	AB040908.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3665	16828	29837	0.97	0.0E+00		NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
3666	16828	29838	0.97	0.0E+00	6997248	NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
3667	16830	29841	1.06	0.0E+00	6325463	NT	Homo sapiens butyrophilin, subfamily 3, member A3 (BTN3A3), mRNA
3672	16835		4.28	0.0E+00	AW852217.1	EST_HUMAN	QV0-CT0225-230300-169-e01 CT0225 Homo sapiens cDNA
3679	16842		1.28	0.0E+00	AF118848.1	NT	Homo sapiens gamma-glutamylcysteine synthetase (GLCLC) gene, partial cds
3680	16843	29850	7.65	0.0E+00	BF676393.1	EST_HUMAN	602084583F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248668 5'
3704	16866	29868	0.59	0.0E+00	BF672054.1	EST_HUMAN	602152486F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4283645 5'
3704	16866	29869	0.59	0.0E+00	BF672054.1	EST_HUMAN	602152486F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4283645 5'
3705	16868		0.89	0.0E+00	4826897	NT	Homo sapiens retinoblastoma-binding protein 2 (RBBP2) mRNA
3707	16868	29871	0.76	0.0E+00	AW684693.1	EST_HUMAN	h184g01.x1 Soares_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2878024 3'
3707	16868	29872	0.76	0.0E+00	AW684693.1	EST_HUMAN	h184g01.x1 Soares_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2878024 3'
3711	16872	29878	0.89	0.0E+00		NT	Homo sapiens heparan sulfate (glucosamine) 3-O-sulfotransferase 1 (HS3ST1) mRNA
3713	16874	29879	0.93	0.0E+00	7662319	NT	Homo sapiens midline 1 (Optiz/BBB syndrome) (MID1) mRNA
3720	16881	29886	0.74	0.0E+00	4557782	NT	Homo sapiens midline 1 (Optiz/BBB syndrome) (MID1) mRNA
3720	16881	29887	0.74	0.0E+00	4557782	NT	Homo sapiens midline 1 (Optiz/BBB syndrome) (MID1) mRNA
3737	16888	29901	2.36	0.0E+00	D87327.1	NT	Homo sapiens mRNA for G protein-coupled inward rectifier potassium channel, complete cds
3741	16902		6.29	0.0E+00	7669491	NT	Homo sapiens glyceroldehyde-3-phosphate dehydrogenase (GAPD), mRNA
3757	16918	29920	3.98	0.0E+00	AB026542.1	NT	Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds
3759	16920	29922	1.08	0.0E+00	AB007866.2	NT	Homo sapiens mRNA for KIAA0408 protein, partial cds
3761	16922	29923	5.16	0.0E+00	AF124250.1	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
3761	16922	29924	5.16	0.0E+00	AF124250.1	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
3767	16928	29932	32.49	0.0E+00	AA852743.1	EST_HUMAN	NHTBCae15g08f1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBCae15g08
3767	16928	29933	32.49	0.0E+00	AA852743.1	EST_HUMAN	NHTBCae15g08f1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBCae15g08
3770	16931	29935	1.95	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3770	16931	29936	1.95	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3771	16932	29937	0.99	0.0E+00	AB002331.1	NT	Human mRNA for KIAA0333 gene, partial cds
3771	16932	29938	0.99	0.0E+00	AB002331.1	NT	Human mRNA for KIAA0333 gene, partial cds
3774	16935	29941	2.4	0.0E+00	AW891714.1	EST_HUMAN	MR2-CT0222-281099-005-c05 CT0222 Homo sapiens cDNA
3776	16937	29949	2.37	0.0E+00	5729028	NT	Homo sapiens matrix metalloproteinase 24 (membrane-inserted) (MMP24), mRNA
3778	16939	29945	1.15	0.0E+00	AB018339.1	NT	Homo sapiens mRNA for KIAA0766 protein, partial cds
3780	16941	29947	0.74	0.0E+00	O14867	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
3782	16943	29949	1.02	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3782	16943	29950	1.02	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3794	16956	29959	5.42	0.0E+00	AW298134.1	EST_HUMAN	UHH-BWO-ajs-e-12-0-UI.s1 NCI_CGAP_Sub66 Homo sapiens cDNA clone IMAGE:2733022 3'
3794	16956	29960	5.42	0.0E+00	AW298134.1	EST_HUMAN	UHH-BWO-ajs-e-12-0-UI.s1 NCI_CGAP_Sub66 Homo sapiens cDNA clone IMAGE:2733022 3'
3823	16983	29986	1.04	0.0E+00	AB004630.1	NT	Human gene for Type XIX collagen a1 chain, exon 6
3824	16984	29987	1.17	0.0E+00	AA463639.1	EST_HUMAN	aa06g01.1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:812496 5' similar to SW:KRB4_SHEEP P02445 KERATIN, HIGH-SULFUR MATRIX PROTEIN, IIIB4. [1]
3831	16991	29993	3.23	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3841	17000	30003	0.83	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
3855	17015	30015	5.72	0.0E+00	7662183	NT	Homo sapiens KIAA0568 gene product (KIAA0568), mRNA
3859	17019	30018	18.03	0.0E+00	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
3866	17025	30023	1.52	0.0E+00	7667065	NT	Homo sapiens v-cis avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3866	17025	30024	1.52	0.0E+00	7667065	NT	Homo sapiens v-cis avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3869	17028	30027	8.04	0.0E+00	4505594	NT	Homo sapiens plasminogen activator inhibitor, type II (arginine-serpin) (PAI2) mRNA
3922	17051	30077	1.96	0.0E+00	AF145712.1	NT	Homo sapiens soluble neuropilin-1 mRNA, complete cds
3924	17083		0.73	0.0E+00	AF195558.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
3925	17084	30079	2.36	0.0E+00	AF179733.1	NT	Pan troglodytes olfactory receptor (PTR208) gene, partial cds
3928	17087	30083	2.36	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3928	17087	30084	2.36	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3929	17088	30085	1.74	0.0E+00	AF020091.1	NT	Homo sapiens smooth muscle myosin heavy chain SM1 mRNA, alternatively spliced, partial cds
3935	17094	30082	1.05	0.0E+00	AF127851.1	NT	Gorilla gorilla olfactory receptor (GGO71) gene, partial cds
3935	17094	30083	1.05	0.0E+00	AF127851.1	NT	Gorilla gorilla olfactory receptor (GGO71) gene, partial cds
3936	17095	30094	1.29	0.0E+00	AF127851.1	EST_HUMAN	IG2F10.x1 Soares_NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:2091307 3'
3937	17096		1	0.0E+00	AF152496.1	NT	Homo sapiens protocadherin beta 3 (PCDH-beta3) mRNA, complete cds
3938	17097	30095	2.6	0.0E+00	4758189	NT	Homo sapiens desmoglein (DPI, DPLI) (DSP) mRNA
3940	17098	30096	15.6	0.0E+00	S79885.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNU6BIR1) gene, complete cds
3942	17101	30098	2.14	0.0E+00	7710148	NT	Homo sapiens methyl CpG binding protein 2 (MECP2), mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3943	17102	30089	1.78	0.0E+00	7682183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3946	17105	30101	1.62	0.0E+00	AF069601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3946	17105	30102	1.62	0.0E+00	AF069601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3951	17109	30107	1.02	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds
3951	17109	30108	1.02	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds
3952	17110	30109	0.9	0.0E+00	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
3957	17115	30117	6.96	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5) mRNA
3957	17115	30118	6.96	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5) mRNA
3959	17117	30121	4.85	0.0E+00	U09412.1	NT	Human zinc finger protein ZNF134 mRNA, complete cds
3960	17118	30122	1.12	0.0E+00	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
3963	17121	30124	1.23	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNE1) mRNA
3966	17124	30127	1.44	0.0E+00	AF012615.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 11
3967	17125	30128	2.87	0.0E+00	4759171	NT	Homo sapiens SC35-interacting protein 1 (SIRP129), mRNA
3969	17127	30130	0.77	0.0E+00	AF099117.1	NT	Homo sapiens amphiphysin gene, partial cds
3979	17136	30140	3.22	0.0E+00	AB64727.1	EST_HUMAN	wk01801.x1 NC1_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2411065 3' similar to TR-043340
3980	17137	30141	1.03	0.0E+00	AL163248.2	NT	O43340 R28830_2, contains element PTR7 repetitive element;
3983	17140	30145	18.17	0.0E+00	4506742	NT	Homo sapiens chromosome 21 segment HS21G048
3988	17145	30151	1.33	0.0E+00	AL040338.1	EST_HUMAN	Homo sapiens ribosomal protein S8 (RPS8), mRNA
3984	17151	30158	1.9	0.0E+00	6005887	NT	DKFZp434N0413_J1 434 (synonym: hless) Homo sapiens cDNA clone DKFZp434N0413 5'
3984	17151	30159	1.9	0.0E+00	6005887	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3996	17153	30161	3.94	0.0E+00	4504138	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3997	17154	30164	2.26	0.0E+00	4505078	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRI3) mRNA
4001	17158	30168	0.97	0.0E+00	AF149412.1	NT	Homo sapiens melanoma antigen, family B, 1 (MAGEB1) mRNA
4013	17170	30176	2.66	0.0E+00	4506768	NT	Homo sapiens HBP17 heparin-binding and FGF-binding protein gene, complete cds
4017	17174	30182	1.9	0.0E+00	4586642	NT	Homo sapiens tyrosine kinase receptor 3 (RYR3) mRNA
4026	17182	30191	5.14	0.0E+00	BF355285.1	EST_HUMAN	Homo sapiens zinc finger protein (KIAA0412) mRNA
4028	17184	30193	1.37	0.0E+00	AW888221.1	EST_HUMAN	RC3-H70800-011-a12 HT0860 Homo sapiens cDNA
4028	17184	30194	1.37	0.0E+00	AW888221.1	EST_HUMAN	MXRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1886728 similar to MXRA5
4036	17191	30201	3.05	0.0E+00	AF129533.1	NT	Matrix remodeling associated gene 5
4038	17194	30204	1.14	0.0E+00	U98281.1	NT	MXRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1886728 similar to MXRA5

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4038	17194	30205	1.14	0.0E+00	U68281.1	NT	Homo sapiens olfactory receptor (OR7-141) gene, partial cds
4042	17198	30209	3.47	0.0E+00	BE376802.1	EST_HUMAN	601236896F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608800 5'
4043	17199	30210	1.2	0.0E+00	BE313146.1	EST_HUMAN	601153727F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3609743 5'
4061	17207	30217	1.28	0.0E+00	AW580740.1	EST_HUMAN	PM3-LT0031-100100-003-109 L10031 Homo sapiens cDNA
4052	17208	30218	1.03	0.0E+00	6360215	NT	Homo sapiens diuronate 2-sulfatase (Hunter syndrome) (IDS), transcript variant 1, mRNA
4077	17233	30238	0.8	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
4077	17233	30239	0.8	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
4077	17233	30240	0.8	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
4084	17239	30244	9.31	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
4084	17239	30245	9.31	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
4083	17248		3.61	0.0E+00	M23910.1	NT	Human MHC class II lymphocyte antigen DPw4-beta-2 pseudogene, exon 2
4085	17250		7.25	0.0E+00	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
4104	17258	30258	2.93	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4112	17266	30266	2.13	0.0E+00	AL163268.2	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4127	17281		111.8	0.0E+00	4503470	NT	tt55g08x1 NCJ_CGAP_GC88 Homo sapiens cDNA clone IMAGE:2244734 3' similar to TR-060309 060309
4134	17287		0.99	0.0E+00	AI857076.1	EST_HUMAN	KIAA0563 PROTEIN ;
4137	17288	30284	1.91	0.0E+00	7682183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
4138	17290	30285	2.85	0.0E+00	U05366.1	NT	Human zinc finger protein ZNF133
4157	17308	30304	6	0.0E+00	ABQ15610.1	NT	Chlorococcus aethiops mRNA for ribosomal protein S4X, complete cds
4166	17316		3.22	0.0E+00	AJ238617.1	NT	Homo sapiens mRNA for UGA suppressor RNA-associated antigenic protein (RNA48 gene)
4177	17327	30318	1.56	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4178	17328	30319	2.68	0.0E+00	AJ277276.1	NT	Homo sapiens mRNA for rape-2 (rape gene)
4178	17328	30320	2.68	0.0E+00	AJ277276.1	NT	Homo sapiens mRNA for rape-2 (rape gene)
4185	17335	30327	8.33	0.0E+00	5032026	NT	Homo sapiens retinoblastoma-binding protein 4 (RBBP4) mRNA
4185	17335	30328	8.33	0.0E+00	5032026	NT	Homo sapiens retinoblastoma-binding protein 4 (RBBP4) mRNA
4184	17344	30337	0.84	0.0E+00	4503914	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylglycinamide synthetase (GART) mRNA
4202	17351	30343	6.02	0.0E+00	4885306	NT	Homo sapiens G protein-coupled receptor 21 (GPR21), mRNA
4203	17352	30344	11.98	0.0E+00	AB006625.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4206	17355	30345	1.26	0.0E+00	4758907	NT	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
4207	17359	30346	7.08	0.0E+00	11418287	NT	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1), mRNA
4208	17357	30347	4.33	0.0E+00	AL096867.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4209	17358		0.98	0.0E+00	AA018976.1	EST_HUMAN	ze55e08.J1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:362920 5' similar to contains Alu repetitive element;
4218	17367	30366	5.32	0.0E+00	AF165527.1	NT	Homo sapiens DGCR8 (DGCR8) mRNA, complete cds
4227	14319	27373	0.7	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
4227	14319	27374	0.7	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
4234	17381	30369	1.32	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
4234	17381	30370	1.32	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
4236	16785	29812	0.64	0.0E+00	4506884	NT	Homo sapiens semonegalin II (SEMG2) mRNA
4238	17384	30372	0.91	0.0E+00	8922391	NT	Homo sapiens hypothetical protein FLJ10378 (FLJ10378), mRNA
4238	17384	30373	0.81	0.0E+00	8922391	NT	Homo sapiens hypothetical protein FLJ10378 (FLJ10378), mRNA
4244	17390	30377	0.85	0.0E+00	AB020702.1	NT	Homo sapiens mRNA for KIAA0895 protein, partial cds
4252	17398	30386	5.57	0.0E+00	AI982597.1	EST_HUMAN	wu04d04.x1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:2515975 3'
4252	17398	30387	5.57	0.0E+00	AI982597.1	EST_HUMAN	wu04d04.x1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:2515975 3'
4255	17400	30389	1	0.0E+00	BE184856.1	EST_HUMAN	MR1-HT0707-100500-001-402 HT0707 Homo sapiens cDNA
4255	17400	30390	1	0.0E+00	BE184856.1	EST_HUMAN	MR1-HT0707-100500-001-402 HT0707 Homo sapiens cDNA
4259	17404		5.89	0.0E+00	BE274217.1	EST_HUMAN	601120778F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2957690 5'
4265	17410	30398	2.07	0.0E+00	5729725	NT	Homo sapiens nuclear receptor coactivator 3 (NCOA3), mRNA
4272	17417		5.76	0.0E+00	AW675599.1	EST_HUMAN	ba51f04.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800096 3' similar to SW:TH12_BOVIN
4277	17422	30410	1.12	0.0E+00	AW408788.1	EST_HUMAN	Q85108 MITOCHONDRIAL THIOREDOXIN PRECURSOR;
4278	17423	30411	1.55	0.0E+00	8922468	NT	UHFB-BMD-adv-c-02-0-JL1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063147 5'
4278	17423	30412	1.55	0.0E+00	8922468	NT	Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA
4287	17432		2.35	0.0E+00	5174632	NT	Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA
4300	17443	30429	1.07	0.0E+00	AB037739.1	NT	Homo sapiens polycystic kidney disease (polycystin) and REJ (sperm receptor for egg jelly, sea urchin homolog)-like (PKDREL) mRNA
4309	17452	30438	11.47	0.0E+00	AA401438.1	EST_HUMAN	Homo sapiens mRNA for KIAA1318 protein, partial cds
4309	17452	30439	11.47	0.0E+00	AA401438.1	EST_HUMAN	zu68f07.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu repetitive element; contains element MER35 repetitive element;
4312	17455	30443	1.2	0.0E+00	AF157476.1	NT	zu68f07.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu repetitive element; contains element MER35 repetitive element;
4338	17481	30461	8.09	0.0E+00	4758199	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
4338	17481	30462	8.09	0.0E+00	4758199	NT	Homo sapiens desmoplakin (DPI, DPII) (DSP) mRNA
4345	17488		0.86	0.0E+00	AL163303.2	NT	Homo sapiens desmoplakin (DPI, DPII) (DSP) mRNA
4388	17531	30512	5.01	0.0E+00	J02810.1	NT	Homo sapiens chromosome 21 segment HS21C103
							Human apolipoprotein B-100 mRNA, complete cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4402	17545	30528	0.81	0.0E+00	AW936889.1	EST_HUMAN	PM2-DT0023-080300-004-s08 DT0023 Homo sapiens cDNA
4408	16398	29612	0.66	0.0E+00	BE779039.1	EST_HUMAN	60146495F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3868248 5'
4410	17552	30537	5	0.0E+00	AF174590.1	NT	Homo sapiens F-box protein Fbx4 (FBL4) mRNA, partial cds
4419	17660	30644	0.71	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
4419	17660	30545	0.71	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
4420	17561		2.26	0.0E+00	AI189844.1	EST_HUMAN	q423f06.x1 Soares_placenta_8to9weeks_2NbtIP8to9W Homo sapiens cDNA clone IMAGE:1724579 3'
4424	17564		4.88	0.0E+00	U14620.1	NT	Human GBFA3 (Chias) gene, partial cds
4428	17568	30550	0.96	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA
4445	17585	30566	0.72	0.0E+00	6563384	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4445	17585	30566	0.72	0.0E+00	6563384	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4451	17591	30572	1.06	0.0E+00	U10691.1	NT	Human G2 protein mRNA, partial cds
4451	17591	30573	1.08	0.0E+00	U10691.1	NT	Human G2 protein mRNA, partial cds
4460	17600	30578	10.33	0.0E+00	6912281	NT	Homo sapiens COMPLEMENT COMPONENT C1q RECEPTOR (C1QR), mRNA
4480	17620		1.06	0.0E+00	AF163047.2	NT	Homo sapiens gap junction protein connexin-38 (Cx38) gene, complete cds
4490	17630	30611	3.62	0.0E+00	L14561.1	NT	Homo sapiens plasma membrane calcium ATPase isoform 1 (ATP2B1) gene, alternative splice products, partial cds
4494	17634	30616	6.26	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
4494	17634	30617	6.28	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
4500	17640	30623	1.59	0.0E+00	X60468.1	NT	H. sapiens H4/d gene for H4 histone
4500	17640	30624	1.59	0.0E+00	X60468.1	NT	H. sapiens H4/d gene for H4 histone
4505	17644	30630	10.05	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4505	17644	30631	10.05	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4517	17668	30645	14.1	0.0E+00	4885128	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
4518	17657	30646	1.16	0.0E+00	AJ271736.1	NT	Homo sapiens chromosome 21 segment HS21C007
4519	17658		1.24	0.0E+00	AL163207.2	NT	Homo sapiens mRNA for KIAA1360 protein, partial cds
4522	17661	30648	1.2	0.0E+00	AB037781.1	NT	Homo sapiens myosin regulatory light chain interacting protein (MIR), mRNA
4553	17691	30671	1.9	0.0E+00	7019456	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
4564	17702		6.61	0.0E+00	AF195953.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4570	17708	30687	2.78	0.0E+00	AJ249765.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4570	17708	30688	2.78	0.0E+00	AJ249765.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4574	17711	30684	0.69	0.0E+00	W26179.1	EST_HUMAN	24g7 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
4574	17711	30695	0.69	0.0E+00	W26179.1	EST_HUMAN	24g7 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4591	17728		2.29	0.0E+00	AF200629.1	NT	Homo sapiens HPS1 gene, intron 5
4610	17747	30726	0.66	0.0E+00	T10233.1	EST_HUMAN	seq1329 b4HB3MA Cct8-HAP-F1 Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F205 5'
4610	17747	30727	0.66	0.0E+00	T10233.1	EST_HUMAN	seq1329 b4HB3MA Cct8-HAP-F1 Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F206 5'
4613	17750		0.89	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
4623	17760	30742	27.37	0.0E+00	AW084964.1	EST_HUMAN	xc88e08.x1 NCI_CGAP_Es02 Homo sapiens cDNA clone IMAGE2589446 3' similar to SW-AHNK_HUMAN
4625	18470		2.97	0.0E+00	8051619	NT	Q09688 NEUROBLAST DIFFERENTIATION ASSOCIATED PROTEIN AHNK ;
4627	17763	30745	1.48	0.0E+00	AF016050.1	NT	Homo sapiens LIM domain kinase 2 (LIMK2), transcript variant 2a, mRNA
4631	17767		8.47	0.0E+00	AL163207.2	NT	Homo sapiens vascular endothelial cell growth factor 165 receptor/neuropilin (VEGF165) mRNA, complete cds
4633	17769	30750	0.97	0.0E+00	AW381670.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C007
4640	17776	30757	1.3	0.0E+00	AL278120.1	NT	PM1-HT0305-101189-002-003 HT0305 Homo sapiens cDNA
4640	17776	30758	1.3	0.0E+00	AL278120.1	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
4642	17778	30760	1.06	0.0E+00	4758467	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
4643	17779	30761	2.07	0.0E+00	AF108830.1	NT	Homo sapiens G protein-coupled receptor 50 (GPR50) mRNA
4651	17787	30770	1.02	0.0E+00	S76884.1	NT	Homo sapiens serine-threonine protein kinase (MINBH) mRNA, complete cds
4652	17788	30771	1.2	0.0E+00	AF111163.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
4652	17788	30772	1.2	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
4661	18471	30783	3.18	0.0E+00	6005973	NT	Homo sapiens pyrin (MEFV) gene, complete cds
4666	17801	30788	20.19	0.0E+00	AF208161.1	NT	Homo sapiens zinc finger protein 195 (ZNF195), mRNA
4671	17806	30796	2.17	0.0E+00	AF162337.1	NT	Homo sapiens syncytin precursor, mRNA, complete cds
4674	17809	30799	2.17	0.0E+00	5454176	NT	Homo sapiens protocadherin gamma C3 (PCDH-gamma-C3) mRNA, complete cds
4685	17820	30808	59.87	0.0E+00	4503470	NT	Homo sapiens zinc finger protein 211 (ZNF211), mRNA
4693	17828	30814	0.73	0.0E+00	4506016	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4697	17832	30817	1.84	0.0E+00	4503098	NT	Homo sapiens low density lipoprotein receptor-related protein 6 (LRP6) mRNA, and translated products
4702	17837	30823	1.03	0.0E+00	4502558	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
4707	17842		3.19	0.0E+00	L35485.1	NT	Homo sapiens calcium/calmodulin-dependent protein kinase IV (CAMK4) mRNA
4709	17844	30826	15.03	0.0E+00	7682091	NT	Homo sapiens potassium sulphate sulphatase (IDS) gene, complete cds
4709	17844	30827	15.03	0.0E+00	7682091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4724	17859	30841	2.87	0.0E+00	AF143314.1	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4727	17862	30844	11.57	0.0E+00	AL245418.1	NT	Homo sapiens PTEN (PTEN) gene, exons 3 through 5
							Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4727	17882	30845	11.57	0.0E+00	AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4746	17881		1.68	0.0E+00	AA174072.1	EST_HUMAN	zp18g08.e1 Stratiagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:608854 3'
4749	17894		1.98	0.0E+00	AA174072.1	NT	Homo sapiens cdc (odd Oz/ham-m, Drosophila) homolog 1 (ODZ1), mRNA
4761	17886		3.31	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4762	17887	30868	1.33	0.0E+00	AF184110.1	NT	Homo sapiens cyclophilin-related protein (NKTR) gene, complete cds
4763	17888	30869	4.83	0.0E+00	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4764	17889		1.95	0.0E+00	AB037521.1	NT	Homo sapiens gene for neurite protein, partial cds
4766	17891	30870	0.69	0.0E+00	AF195658.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
4761	17896	30876	1.08	0.0E+00	AL162331.1	NT	Novel human gene mapping to chromosome 1
4764	17899	30879	31.32	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
4764	17899	30880	31.32	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
4765	17900	30881	1.42	0.0E+00	AF153618.1	NT	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds
4766	17900	30882	1.42	0.0E+00	AF153618.1	NT	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds
4768	17901	30883	2.62	0.0E+00	AF167441.1	NT	Mus musculus E-cadherin binding protein E7 mRNA, complete cds
4776	17911	30895	0.96	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4776	17911	30898	0.96	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4781	17916	30902	17.22	0.0E+00	Y18890.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
4787	17922	30910	1.93	0.0E+00	BE081527.1	EST_HUMAN	QV2-BT0835-160400-142-H05 BT0835 Homo sapiens cDNA
4788	17923	30911	1.97	0.0E+00	AA418246.1	EST_HUMAN	z188007.s1 Soares_Nhi-IMPu_S1 Homo sapiens cDNA clone IMAGE:767805 3'
4794	17929		1.9	0.0E+00	AF088841.1	NT	Homo sapiens truncated teneosin XB (TNXB) gene, partial cds and TNXA gene recombination breakpoint region
4799	17934	30921	1.3	0.0E+00	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
4799	17934	30922	1.3	0.0E+00	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
4800	17935	30923	2.72	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4800	17935	30924	2.72	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4801	17936	30925	3.06	0.0E+00	M74099.1	NT	Human displacement protein (CCAAT) mRNA
4804	17939	30927	2.06	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4804	17939	30928	2.06	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4806	13367	28400	2.93	0.0E+00	T56945.1	EST_HUMAN	yab3g04.12 Stratiagene fetal spleen (#637205) Homo sapiens cDNA clone IMAGE:68810 5'
4806	13367	28401	2.93	0.0E+00	T56945.1	EST_HUMAN	yab3g04.12 Stratiagene fetal spleen (#637205) Homo sapiens cDNA clone IMAGE:68810 5'
4810	17943		1.18	0.0E+00	BE278730.1	EST_HUMAN	601158835F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505521 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4814	17947	30932	1.13	0.0E+00	BE390050.1	EST_HUMAN	601285246F1 NIH MGC 44 Homo sapiens cDNA clone IMAGE:3607067 5'
4830	17963	30951	0.96	0.0E+00	5729817	NT	Homo sapiens ecotropic viral integration site 2B (EVI2B), mRNA
4830	17963	30951	0.95	0.0E+00	5729817	NT	Homo sapiens ecotropic viral integration site 2B (EVI2B), mRNA
4833	17968	30956	50.79	0.0E+00	M80902.1	NT	Human AHNAK nucleoprotein mRNA, 5' end
4838	17971	30959	3.07	0.0E+00	M69197.1	NT	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds
4838	17971	30960	3.07	0.0E+00	M69197.1	NT	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds
4842	17975	30965	2.07	0.0E+00	AF184110.1	NT	Homo sapiens cyclophilin-related protein (NCKTR) gene, complete cds
4844	17977	30967	1.05	0.0E+00	7692479	NT	Homo sapiens KIAA1084 protein (KIAA1084), mRNA
4846	17979	30968	1.73	0.0E+00	7692181	NT	Homo sapiens KIAA0563 gene product (KIAA0563), mRNA
4851	17984	30972	1.15	0.0E+00	U07563.1	NT	Human proto-oncogene tyrosine-protein kinase (ABL) gene, exon 1a and exons 2-10, complete cds
4856	17989	30977	1.29	0.0E+00	AL098957.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4872	18005	30987	0.74	0.0E+00	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4872	18005	30988	0.74	0.0E+00	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4882	18012	30996	1.25	0.0E+00	AF026801.1	NT	Homo sapiens alpha-3 type IX collagen (COL9A3) gene, promoter region, and exons 1-28
4886	18016	31000	0.82	0.0E+00	7019320	NT	Homo sapiens protein0008 (AD013), mRNA
4888	18018	31001	0.82	0.0E+00	7019320	NT	Homo sapiens protein0008 (AD013), mRNA
4907	18037	31025	1.29	0.0E+00	AW444637.1	EST_HUMAN	U1-H-B19-g1w-c-04-0-UJ.s1 NCJ CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2733284 3'
4911	18041	31031	1.18	0.0E+00	AF303134.1	NT	Homo sapiens aldehyde dehydrogenase 12 (ALDH12) mRNA, complete cds
4913	18043		2.01	0.0E+00	AF083242.1	NT	Homo sapiens HSPC024-iso mRNA, complete cds
4924	18054		1.33	0.0E+00	M65189.1	NT	Human connexin 43 processed pseudogene
4925	18055		0.64	0.0E+00	AW339253.1	EST_HUMAN	xz88d00x1 NCJ CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2871371 3'
4936	18095		2.87	0.0E+00	AF240796.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
4967	18096	31072	1.95	0.0E+00	45053394	NT	Homo sapiens ribogen (enactin) (NID) mRNA
4970	18099	31075	1.09	0.0E+00	X87208.1	NT	M.fascicularis mRNA for metalloprotease-like, disintegrin-like protein, IVa
4972	18101	31077	0.98	0.0E+00	AF084479.1	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSDB) mRNA, complete cds
4973	18102	31078	1.04	0.0E+00	AF097416.1	NT	Mus musculus zinc finger transcription factor Kalso mRNA, complete cds
4974	18103	31079	4.54	0.0E+00	4503768	NT	Homo sapiens fragile X mental retardation 2 (FMR2) mRNA
4976	18105	31081	9.88	0.0E+00	4895048	NT	Homo sapiens actin, alpha, cardiac muscle (ACTC), mRNA
4977	18106	31082	1	0.0E+00	P92740	SWISSPROT	ZINC FINGER PROTEIN 192
4982	18111	31088	3.41	0.0E+00	8923080	NT	Homo sapiens hypothetical protein FLJ20073 (FLJ20073), mRNA
4985	18114	31091	1.35	0.0E+00	MB4081.1	NT	Human Tor-C-delta gene, exons 1-4; Tor-V-delta gene, exons 1-2; T-cell receptor alpha (Tor-alpha) gene, J1-J61 segments; and Tor-C-alpha gene, exons 1-4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4985	18114	31092	1.35	0.0E+00	M94081.1	NT	Human Ter-C-delta gene, exons 1-4; Ter-V-delta gene, exons 1-2; T-cell receptor alpha (Tcr-alpha) gene, J1-J61 segments; and Ter-C-alpha gene, exons 1-4
4987	18116	31094	1.3	0.0E+00	X94628.1	NT	H. sapiens MeCP-2 gene
4987	18116	31095	1.3	0.0E+00	X94628.1	NT	H. sapiens MeCP-2 gene
4990	18119	31098	1.48	0.0E+00	M55582.1	NT	Human collagenase type IV (CLG4) gene, exon 2
4991	18120	31098	2.55	0.0E+00	AL168280.2	NT	Homo sapiens chromosome 21 segment HS21C080
5000	18128	31104	1.08	0.0E+00	5032150	NT	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1, 2840 (TAF2)
5007	18136	31110	1.19	0.0E+00	X92841.1	NT	H. sapiens MICA gene
5009	18138	31112	1.32	0.0E+00	4585642	NT	Homo sapiens zinc finger protein (KIAA0412) mRNA
5010	18139	31113	1.39	0.0E+00	AB014533.1	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
5011	18140	31114	2.74	0.0E+00	6877648	NT	Mus musculus zinc finger protein interacting with K protein 1 (Zik1), mRNA
5012	18141	31115	1.02	0.0E+00	5174560	NT	Homo sapiens meningioma expressed antigen 6 (coiled-coil proline-rich) (MGEA6), mRNA
5013	18142	31116	0.94	0.0E+00	BE007935.1	EST_HUMAN	QY0-BN0147-280400-213-g11 BN0147 Homo sapiens cDNA
5013	18142	31117	0.94	0.0E+00	BE007935.1	EST_HUMAN	QY0-BN0147-280400-213-g11 BN0147 Homo sapiens cDNA
5014	18143	31118	4.26	0.0E+00	4758199	NT	Homo sapiens desmocollin (DPI, DPII) (DSP) mRNA
5016	18145	31120	1.79	0.0E+00	6174560	NT	Homo sapiens meningioma expressed antigen 6 (coiled-coil proline-rich) (MGEA6), mRNA
5016	18145	31121	1.79	0.0E+00	5174560	NT	Homo sapiens meningioma expressed antigen 6 (coiled-coil proline-rich) (MGEA6), mRNA
5017	18146	31122	0.98	0.0E+00	7705546	NT	Homo sapiens zinc-finger DNA-binding protein (HUMHOXY1), mRNA
5020	18149	31127	11.02	0.0E+00	AF055068.1	NT	Homo sapiens MHC class 1 region
5022	18161		2.46	0.0E+00	4505508	NT	Homo sapiens opioid receptor, delta 1 (OPRD1) mRNA
5023	18162	31130	2.77	0.0E+00	AF091711.1	NT	Homo sapiens splice variant AKAP350 mRNA, partial cds
5036	18164	31140	1.55	0.0E+00	4503684	NT	Homo sapiens farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase) (FDFS) mRNA
5040	18168		1.17	0.0E+00	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
5042	18170	31145	1.14	0.0E+00	D15050.1	NT	Human mRNA for transcription factor AREB6, complete cds
5042	18170	31146	1.14	0.0E+00	D15050.1	NT	Human mRNA for transcription factor AREB6, complete cds
5043	18171	31147	7.97	0.0E+00	AB006825.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
5043	18171	31148	7.97	0.0E+00	AB006825.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
5049	18177	31154	1.39	0.0E+00	4504082	NT	Homo sapiens glycican 4 (GPC4) mRNA
5049	18177	31155	1.39	0.0E+00	4504082	NT	Homo sapiens glycican 4 (GPC4) mRNA
5067	18195	31169	1.28	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5073	18201	31173	0.71	0.0E+00	7682319	NT	Homo sapiens KIAA0806 gene product (KIAA0806), mRNA
5082	18210	31182	1.15	0.0E+00	8922926	NT	Homo sapiens hypothetical protein FLJ11180 (FLJ11180), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5087	18215		7.66	0.0E+00	U14967.1	NT	Human ribosomal protein L21 mRNA, complete cds
5087	18225	31187	1.25	0.0E+00	M10978.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
5089	18227		2.97	0.0E+00	BE408603.1	EST_HUMAN	601303729F-1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638118 5'
5102	18230	31201	4.85	0.0E+00	4758189	NT	Human sapiens desminoplatin (DPI, DPII) (DSP) mRNA
5110	18238	31205	1.43	0.0E+00	AB028068.1	NT	Homo sapiens mRNA for KIAA1043 protein, partial cds
5121	18247	31212	2.32	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
5121	18247	31213	2.32	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
5135	18259	31225	0.72	0.0E+00	AA601246.1	EST_HUMAN	no14g09.s1 NCJ_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140
5135	18259	31226	0.72	0.0E+00	AA601246.1	EST_HUMAN	E239140 SPALT PROTEIN;
5135	18259	31227	0.72	0.0E+00	AA601246.1	EST_HUMAN	no14g09.s1 NCJ_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140
5139	18262	31229	2.09	0.0E+00	U82671.2	NT	E239140 SPALT PROTEIN;
5139	18262	31230	2.09	0.0E+00	U82671.2	NT	no14g09.s1 NCJ_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140
5146	13440	26472	0.72	0.0E+00	AF195655.1	NT	Homo sapiens chromosome Xc28 melanoma antigen family A2a (MAGEA2A), melanoma antigen family A12 (MAGEA12), melanoma antigen family A2b (MAGEA2B), melanoma antigen family A3 (MAGEA3), caltractin (CALT), NAD(P)H dehydrogenase-like protein (NSDHL), and Lp
5148	18270		1.09	0.0E+00	4758225	NT	Homo sapiens chromosome Xc28 melanoma antigen family A2a (MAGEA2A), melanoma antigen family A12 (MAGEA12), melanoma antigen family A2b (MAGEA2B), melanoma antigen family A3 (MAGEA3), caltractin (CALT), NAD(P)H dehydrogenase-like protein (NSDHL), and Lp
5160	18282	31247	0.64	0.0E+00	U53598.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
5167	18289		1.69	0.0E+00	AL163209.2	NT	Homo sapiens E2F transcription factor 2 (E2F2) mRNA
5170	18292		18.98	0.0E+00	D50657.1	NT	Homo sapiens MHC class 1 region
5182	18304	31298	0.82	0.0E+00	X52988.1	NT	Homo sapiens chromosome 21 segment HS21C009
5186	18318	31287	3.55	0.0E+00	4507720	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
5197	18319	31288	0.61	0.0E+00	X72791.1	NT	Bacillus amyloqueliciens sacB gene for levansucrase (EC 2.4.1.10)
5213	18334	31305	1.82	0.0E+00	AF240635.1	NT	Human endogenous retrovirus mRNA for gag protein
5213	18334	31306	1.82	0.0E+00	AF240635.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5214	18335	31307	1.18	0.0E+00	5454153	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5232	18354	31322	0.82	0.0E+00	5902055	NT	Homo sapiens cyclophilin (USA-CYP) mRNA
5234	18355	31323	4.58	0.0E+00	M10905.1	NT	Homo sapiens ring finger protein (RNF), mRNA
5234	18355	31324	4.58	0.0E+00	M10905.1	NT	Human cellular fibronectin mRNA
5236	18358	31327	0.8	0.0E+00	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene

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5250	18371	31338	0.65	0.0E+00	5902081	NT	Homo sapiens solute carrier family 5 (nositol transporters), member 3 (SLC5A3), mRNA
5253	18373	31339	1.91	0.0E+00	AF124250.1	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
5266	18385	31351	1.2	0.0E+00	8923822	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
5266	18385	31352	1.2	0.0E+00	8923822	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
5267	18386	31353	0.69	0.0E+00	7706245	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
5267	18386	31354	0.69	0.0E+00	7706245	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
5274	18393	31362	1.89	0.0E+00	AL163279.2	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
5278	18397	31364	1.03	0.0E+00	AA425183.1	EST_HUMAN	z44412.11 Scores_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:772843 5'
5278	18397	31365	1.03	0.0E+00	AA425183.1	EST_HUMAN	z44412.11 Scores_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:772843 5'
5290	18408	31375	0.93	0.0E+00	7857442	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
5294	18412	31378	1.47	0.0E+00	AF165982.1	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
5297	18472	31382	1.84	0.0E+00	AF167336.1	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
5300	18417	31386	0.94	0.0E+00	S69012.1	NT	AML1-EV1-1+AML1-EV1-1 fusion protein (rearranged translocation) [human, leukemia cell line SKH1, mRNA
5301	18418	31387	1.93	0.0E+00	AF009668.1	NT	Mutant, 5938 nt
5301	18418	31388	1.93	0.0E+00	AF009668.1	NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds
5303	18420	31390	24.35	0.0E+00	5360213	NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds
5306	18423	31393	1.07	0.0E+00	7857203	NT	Homo sapiens glypican 3 (GPC3) mRNA
5319	18435	31405	0.79	0.0E+00	X78060.1	NT	Homo sapiens acidic 82 kDa protein mRNA (HSU15552), mRNA
5321	18426	28444	0.85	0.0E+00	AI885950.1	EST_HUMAN	H. sapiens mRNA for YRRM2
5328	18441	31410	0.96	0.0E+00	AF245703.1	NT	tu38g09.x1 NCI CGAP J728 Homo sapiens cDNA clone IMAGE:2263376 3' similar to SW-RASD_DICD1
5328	18441	31411	0.96	0.0E+00	AF245703.1	NT	P03987 RAS-LIKE PROTEIN RASD
5333	18446	31414	0.96	0.0E+00	AL163208.2	NT	Homo sapiens toll-like receptor 8 (TLR8) mRNA, complete cds
5338	18451	31418	110.9	0.0E+00	AF008061.1	NT	Homo sapiens toll-like receptor 8 (TLR8) mRNA, complete cds
5340	18453	31421	1.06	0.0E+00	AV728632.1	EST_HUMAN	Homo sapiens cytochrome 21 segment HS21C006
5344	18457	31423	1.29	0.0E+00	6174832	NT	Homo sapiens placental growth hormone isoform hGH-V3 (hGH-V) mRNA, complete cds
5346	18459	31424	1.16	0.0E+00	4502582	NT	AV728632 H7C Homo sapiens cDNA clone HTCCEA03 5'
5356	18482	31436	2.45	0.0E+00	AF080093.1	NT	Homo sapiens polyphosphatase 8, apoptosis-related cytosolic proteinase (CASP8) mRNA
5366	18509	31437	2.17	0.0E+00	AF137286.1	NT	Homo sapiens acetylase (AC02) gene, nuclear gene encoding mitochondrial protein, exon 16
5366	18509	31437	2.17	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5388	18590	31562	1.21	0.0E+00	AI834854.1	EST_HUMAN	Homo sapiens keratin 12 (KRT12) gene, complete cds
5388	18590	31562	1.21	0.0E+00	AI834854.1	EST_HUMAN	wp06g08.x1 NCI CGAP Kid12 Homo sapiens cDNA clone IMAGE:2484094 3'

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6391	18593	31565	1.2	0.0E+00	9256579	NT	Homo sapiens protocadherin alpha 13 (PCDH1A13), mRNA
6406	18608	31580	3.52	0.0E+00	BE931080.1	EST_HUMAN	RC3-GN0076/310800-013-603 GN0076 Homo sapiens cDNA
5410	18612	31584	3.5	0.0E+00	AF182034.1	NT	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5410	18612	31585	3.5	0.0E+00	AF182034.1	NT	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
6418	18619	31594	8.57	0.0E+00	X58183.1	NT	H. sapiens Immunoglobulin heavy chain gene, variable region
6418	18619	31595	8.57	0.0E+00	X58183.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
6499	18698	31714	6.41	0.0E+00	BE676498.1	EST_HUMAN	7H10c06.X1 NCI_CGAP_CLI1 Homo sapiens cDNA clone IMAGE:3284250 3'
5500	18699	31715	1.7	0.0E+00	BE220753.1	EST_HUMAN	h89a02.x1 NCI_CGAP_Juz24 Homo sapiens cDNA clone IMAGE:3943804 5'
5501	18700	31716	1.57	0.0E+00	BE794412.1	EST_HUMAN	P42884 HYPOTHETICAL PROTEIN KIAA0054.:
5501	18700	31717	1.57	0.0E+00	BE794412.1	EST_HUMAN	60158942ZF1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5'
							60158942ZF1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5'
5502	18701	31718	0.72	0.0E+00	A1189142.1	EST_HUMAN	qtd4604.x1 Scarsa, placenta, 86days, 2NHP86aW Homo sapiens cDNA clone IMAGE:1722702 3'
5506	18705	31721	6.23	0.0E+00	M28908.1	NT	similar to SW:T2D3_DROME P49846 TRANSCRIPTION INITIATION FACTOR TFIID 85 KD SUBUNIT ;
							Homo sapiens eosinophil peroxidase (EPP) gene, exon 7
5510	18709	31724	1.3	0.0E+00	A1791363.1	EST_HUMAN	ch68a09.y5 NCI_CGAP_K045 Homo sapiens cDNA clone IMAGE:1472152 5' similar to gbm18512 IG
5520	25306	31732	4.62	0.0E+00	11421038	NT	HEAVY CHAIN PRECURSOR V-J REGION (HUMAN);
5530	18727		4	0.0E+00	BF686922.1	EST_HUMAN	Homo sapiens Sp4 transcription factor (SP4), mRNA
5531	18728	31743	0.78	0.0E+00	AU134406.1	EST_HUMAN	602118628F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4276254 5'
5531	18728	31744	0.78	0.0E+00	AU134406.1	EST_HUMAN	AU134406 OVARC1 Homo sapiens cDNA clone OVARC1001894 5'
5537	18734	31751	0.61	0.0E+00	BE538857.1	EST_HUMAN	AU134406 OVARC1 Homo sapiens cDNA clone OVARC1001894 5'
5546	18743	31777	1.63	0.0E+00	BE282784.1	EST_HUMAN	601061489F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3447839 5'
5551	18748	31783	1.65	0.0E+00	BF526328.1	EST_HUMAN	601105691F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988310 5'
5551	18748	31784	1.65	0.0E+00	BF526328.1	EST_HUMAN	602071372F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214272 5'
5570	20121	33535	1.71	0.0E+00	4557364	NT	602071372F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214272 5'
5573	18769	31811	1.29	0.0E+00	AB007935.1	NT	Homo sapiens Bloom syndrome (BLM) mRNA
5573	18769	31812	1.29	0.0E+00	AB007935.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
5577	18772	31816	8.95	0.0E+00	AF287797.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5577	18772	31817	8.95	0.0E+00	AF287797.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5590	18785	31831	1.34	0.0E+00	D26835.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5590	18785	31832	1.34	0.0E+00	D26835.1	NT	Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15)
5606	18801	31807	2.01	0.0E+00	11420819	NT	Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15)
5612	18806	31873	0.79	0.0E+00	Z38133.1	NT	Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15)
							Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
							H. sapiens mRNA for myosin

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5630	18824	31898	0.73	0.0E+00	D61564.1	EST_HUMAN	HUM418D05B Clontech human fetal brain polyA+ mRNA (#8535) Homo sapiens cDNA clone GEN-418D05
5630	18824	31899	0.73	0.0E+00	D61564.1	EST_HUMAN	5'
5633	18827	31903	2.92	0.0E+00	BF529331.1	EST_HUMAN	602042322F1 NCI_CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4179888 5'
5633	18827	31904	2.92	0.0E+00	BF529331.1	EST_HUMAN	602042322F1 NCI_CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4179888 5'
5638	18832	31908	2.82	0.0E+00	BF313139.1	EST_HUMAN	601897858F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128815 5'
5649	18843	32124	4.23	0.0E+00	11434392	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CACNA1G), mRNA
5684	18858	32141	0.59	0.0E+00	A828181.1	EST_HUMAN	w085b02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2463051 3' similar to TR:075054
5684	18858	32142	0.59	0.0E+00	A828181.1	EST_HUMAN	075054 KIAA0466 PROTEIN:
5682	18876	32165	1.3	0.0E+00	BE260777.1	EST_HUMAN	075054 KIAA0466 PROTEIN:
5691	18885	32165	3.95	0.0E+00	AW867316.1	EST_HUMAN	601150252F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502809 5'
5705	18898	32190	2.49	0.0E+00	BE282889.1	EST_HUMAN	MFO-SN0037-030-400-001-h07 SN0037 Homo sapiens cDNA
5705	18898	32191	2.49	0.0E+00	BE282889.1	EST_HUMAN	601105291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987803 5'
5725	18918	32212	1.7	0.0E+00	11420819	NT	601105291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987803 5'
5725	18918	32213	1.7	0.0E+00	11420819	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5733	18926	32221	4.16	0.0E+00	AF064254.1	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5733	18926	32222	4.16	0.0E+00	AF064254.1	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5740	18933	32232	2.64	0.0E+00	AJ224639.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
5740	18933	32233	2.64	0.0E+00	AJ224639.1	NT	Homo sapiens Surf-5 and Surf-9 genes
5769	18961	32282	1	0.0E+00	A198515.1	EST_HUMAN	Homo sapiens Surf-5 and Surf-9 genes
5773	18965	32288	7.55	0.0E+00	M85719.1	EST_HUMAN	q084g10.x1 Source: placenta_BioSource. ZNHP8869W Homo sapiens cDNA clone IMAGE:1757730 3' similar to SW:CADC_HUMAN P55289 BRAIN-CADHERIN PRECURSOR:
5780	18972	32277	4.52	0.0E+00	AW405472.1	EST_HUMAN	EST02238 Fetal brain, Stratiogene (catt896208) Homo sapiens cDNA clone HFBGM48
5783	18984	32287	1.12	0.0E+00	Z88289.1	NT	U1HF-BL0-esth-d-024-U11 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3061658 5'
5804	18994	32297	1.85	0.0E+00	AW361877.1	EST_HUMAN	H sapiens isoform 1 gene for L-type calcium channel, exon 14 and 15
5804	18994	32298	1.85	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091289-007-h05 CT0263 Homo sapiens cDNA
5804	18994	32299	1.85	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091289-007-h05 CT0263 Homo sapiens cDNA
5807	18997	32302	0.59	0.0E+00	AB035266.1	NT	PM3-CT0263-091289-007-h05 CT0263 Homo sapiens cDNA
5807	18997	32303	0.59	0.0E+00	AB035266.1	NT	Homo sapiens mRNA for neuradin II, complete cds
5809	18999	32306	1.87	0.0E+00	U38261.1	NT	Homo sapiens mRNA for neuradin II, complete cds
5840	19030	32336	1.02	0.0E+00	AB046861.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 13
5840	19030	32336	1.02	0.0E+00	AB046861.1	NT	Homo sapiens mRNA for KIAA1641 protein, partial cds

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5889	19088	32400	1.49	0.0E+00	AJ006345.1	NT	Homo sapiens KVLQT1 gene
5899	19088	32401	1.49	0.0E+00	AJ006345.1	NT	Homo sapiens KVLQT1 gene
5906	19095	32410	1.23	0.0E+00	AJ207616.1	EST_HUMAN	HA2881 Human fetal liver cDNA library Homo sapiens cDNA
5928	19114	32427	4.63	0.0E+00	11416301	NT	Homo sapiens protocadherin beta 2 (PCDH2), mRNA
5933	19119	32430	1.19	0.0E+00	BE791173.1	EST_HUMAN	601584032F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3938551 5'
5942	19128	32441	1.1	0.0E+00	8998943	NT	Homo sapiens anilicid-sensitive cation channel 1, neuronal (degenerin) (ACCN1), mRNA
5943	19129	32442	7.24	0.0E+00	BE59082.1	EST_HUMAN	601345141F1 NIH_MGC 8 Homo sapiens cDNA clone IMAGE:3677843 5'
5944	19130	32443	2.46	0.0E+00	10048478	NT	Mus musculus aczonin (Acz), mRNA
5945	19131	32444	3.06	0.0E+00	U86961.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5945	19131	32445	3.06	0.0E+00	U86961.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5965	19151	32468	2.98	0.0E+00	BF339835.1	EST_HUMAN	602036272F1 NCI_CGAP_Brm64 Homo sapiens cDNA clone IMAGE:4184321 5'
5968	19154	32469	0.92	0.0E+00	AF142621.1	NT	Homo sapiens calcium channel gamma 5 subunit (CACNG5) gene, exon 4 and complete cds
5969	19155	32470	3.07	0.0E+00	BE273983.1	EST_HUMAN	601104462F1 NIH_MGC 14 Homo sapiens cDNA clone IMAGE:3347463 5'
5979	19184	32484	1.12	0.0E+00	BE603096.1	EST_HUMAN	h283411.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3214681 3' similar to TR:Q62084 Q62084
5984	19189	32491	2.09	0.0E+00	BF59905.1	EST_HUMAN	PHOSPHOLIPASE C NEIGHBORING ;
5989	19174	32495	0.99	0.0E+00	AA454642.1	EST_HUMAN	602185852F1 NIH_MGC 45 Homo sapiens cDNA clone IMAGE:4310076 5'
6021	19204	32524	2.15	0.0E+00	AF217289.1	NT	z689406.s1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:811883 3'
6023	19206	32526	4.69	0.0E+00	BE828144.1	EST_HUMAN	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
6028	19211	32531	1.19	0.0E+00	BE968636.1	EST_HUMAN	RC5-E10027-210800-022-G10 ET0027 Homo sapiens cDNA
6044	19227	32550	0.58	0.0E+00	BE673986.1	EST_HUMAN	601645287F1 NIH_MGC 56 Homo sapiens cDNA clone IMAGE:3930453 5'
6044	19227	32551	0.58	0.0E+00	BE673986.1	EST_HUMAN	7d72e11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
6048	19231	32555	0.8	0.0E+00	AW276760.1	EST_HUMAN	P51843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1];
6056	19240	32565	0.96	0.0E+00	BF031742.1	EST_HUMAN	7d72e11.x1 NCI_CGAP_Ov38 Homo sapiens cDNA clone IMAGE:2745245 3' similar to TR:P78335 P78335
6058	19240	32568	0.96	0.0E+00	BF031742.1	EST_HUMAN	xc65103.x1 NCI_CGAP_Ov38 Homo sapiens cDNA clone IMAGE:2745245 3' similar to TR:P78335 P78335
6070	19252	32581	0.65	0.0E+00	AW470846.1	EST_HUMAN	GUANYLATE KINASE ASSOCIATED PROTEIN, ;
6082	19284	32592	1.09	0.0E+00	BF155670.1	EST_HUMAN	601558060F1 NIH_MGC 58 Homo sapiens cDNA clone IMAGE:3827775 5'
6082	19284	32593	1.09	0.0E+00	BF155670.1	EST_HUMAN	601558060F1 NIH_MGC 58 Homo sapiens cDNA clone IMAGE:3827775 5'
6082	19284	32593	1.09	0.0E+00	BF155670.1	EST_HUMAN	h284d08.x1 NCI_CGAP_KH12 Homo sapiens cDNA clone IMAGE:2875585 3' similar to TR:Q8ZIN3
6082	19284	32593	1.09	0.0E+00	BF155670.1	EST_HUMAN	Q8ZIN3 MYOSIN-RHO GAP PROTEIN, MYR 7. ;
6082	19284	32593	1.09	0.0E+00	BF155670.1	EST_HUMAN	QV4-HT0894-280900-389-a10 HT0894 Homo sapiens cDNA
6082	19284	32593	1.09	0.0E+00	BF155670.1	EST_HUMAN	QV4-HT0894-280900-389-a10 HT0894 Homo sapiens cDNA

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6090	19271	32699	1.87	0.0E+00	W33069.1	EST_HUMAN	z008h06.l1 Soares_perathyroid_tumor_NHHPA Homo sapiens cDNA clone IMAGE:321755 5'
6090	19271	32699	1.87	0.0E+00	W33069.1	EST_HUMAN	z008h06.l1 Soares_perathyroid_tumor_NHHPA Homo sapiens cDNA clone IMAGE:321755 5'
6091	19272	32699	2.3	0.0E+00	AF012818.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 14
6094	19275	32694	3.37	0.0E+00	BE280197.1	EST_HUMAN	601159515F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505323 5'
6100	19280	32612	2.43	0.0E+00	BE889610.1	EST_HUMAN	601512630F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914238 5'
6102	19282	32615	0.58	0.0E+00	BE388673.1	EST_HUMAN	601286320F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3513085 5'
6117	19297	32633	0.65	0.0E+00	AW762848.1	EST_HUMAN	L3-CT0220-111199-028-E04 CT0220 Homo sapiens cDNA
6120	19299	32635	1.72	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product; synaptic vesicle protein 2B homolog (KIAA0735), mRNA
6120	19299	32636	1.72	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product; synaptic vesicle protein 2B homolog (KIAA0735), mRNA
6121	19300	32637	1.15	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
6121	19300	32638	1.15	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
6121	19300	32639	1.15	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
6137	25819	32656	10.17	0.0E+00	9789888	NT	Homo sapiens potassium voltage-gated channel, Shal-related subfamily, member 2 (KCND2), mRNA
6140	19318	32659	1.28	0.0E+00	AA183506.1	EST_HUMAN	zr40h01.l1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:665905 5' similar to SW:YY05 HUMAN P42894 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5. ;
6140	19318	32660	1.28	0.0E+00	AA183506.1	EST_HUMAN	zr40h01.l1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:665905 5' similar to SW:YY05 HUMAN P42894 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5. ;
6163	19339	32685	10.44	0.0E+00	U34626.1	NT	Human T cell surface glycoprotein CD-6 mRNA, complete cds
6163	19339	32686	10.44	0.0E+00	U34626.1	NT	Human T cell surface glycoprotein CD-6 mRNA, complete cds
6203	19378	32729	1.08	0.0E+00	BE258330.1	EST_HUMAN	601114823F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3355565 5'
6213	19398	32737	1.15	0.0E+00	BE156591.1	EST_HUMAN	QVQ-HT0368-060200-099-409 HT0368 Homo sapiens cDNA
6223	19398	32747	0.86	0.0E+00	M98107.1	NT	Human neurofibromatosis type 1 (NF-1) mRNA, 3' end of cds
6259	19433	32780	1.8	0.0E+00	BE378007.1	EST_HUMAN	601236276F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608490 5'
6265	19439	32786	1.35	0.0E+00	AU137772.1	EST_HUMAN	AU137772 PLACE1 Homo sapiens cDNA clone PLACE1007201 5'
6287	19460	32812	3.33	0.0E+00	U45982.1	NT	Human G protein-coupled receptor GPR-9-6 gene, complete cds
6316	19488	32844	4.34	0.0E+00	AA204740.1	EST_HUMAN	zr61d03.l1 Stragene hNT neuron (#637233) Homo sapiens cDNA clone IMAGE:648008 5' similar to TR:G854195 G854195 LELKOCYTE SURFACE PROTEIN ;
6317	19489	32845	3.89	0.0E+00	11545913	NT	Homo sapiens xylotransferase II (XT2), mRNA
6317	19489	32846	3.89	0.0E+00	11545913	NT	Homo sapiens xylotransferase II (XT2), mRNA
6353	19523	32880	2.23	0.0E+00	11428367	NT	Homo sapiens carboxymyosin antigen-related cell adhesion molecule 8 (CEACAM8), mRNA
6357	19527	32885	3.15	0.0E+00	BE257173.1	EST_HUMAN	601109532F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350622 5'
6371	19540		0.98	0.0E+00	AI688048.1	EST_HUMAN	189110.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2248939 3' similar to TR:Q14839 Q14839 MI-2 PROTEIN ;

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6375	19544	32902	1.32	0.0E+00	L35930.1	NT	Human anion exchanger (AE1) gene, exons 1-20
6383	19552	32908	0.86	0.0E+00	BE797395.1	EST_HUMAN	601587971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942329 5'
6383	19552	32909	0.99	0.0E+00	BE797395.1	EST_HUMAN	601587971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942329 5'
6393	19562	32922	0.71	0.0E+00	AI188025.1	EST_HUMAN	q550b1.1x1 NCI_CGAP_Bim25 Homo sapiens cDNA clone IMAGE:1859801 3' similar to TR:Q12838 Q12838
6393	19562						TFIIIC ALPHA SUBUNIT
6393	19562	32923	0.71	0.0E+00	AI188025.1	EST_HUMAN	q550b1.1x1 NCI_CGAP_Bim25 Homo sapiens cDNA clone IMAGE:1859801 3' similar to TR:Q12838 Q12838
6395	19564	32924	1.11	0.0E+00	BF357123.1	EST_HUMAN	TFIIIC ALPHA SUBUNIT
6403	19572	32934	1.3	0.0E+00	11435630	NT	MFR0-HT0923-220800-102-405 HT0923 Homo sapiens cDNA
6413	19582	32943	0.59	0.0E+00	D55649.1	NT	Homo sapiens peptide transporter 3 (LOC51296), mRNA
6429	19597	32963	1.07	0.0E+00	AW178142.1	EST_HUMAN	Human mRNA for alpha mannosidase II isozyme, complete cds
6450	19617	32980	0.6	0.0E+00	BE674544.1	EST_HUMAN	Human mRNA for alpha mannosidase II isozyme, complete cds
6454	19621	32985	0.77	0.0E+00	7892039	NT	Human gene for the light and heavy chains of myeloperoxidase
6468	19635	33006	9.28	0.0E+00	AV650020.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6477	19644	33006	3.46	0.0E+00	AW575598.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6480	19647	33009	4.63	0.0E+00	H01255.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6488	19655	33018	0.71	0.0E+00	11428283	NT	Human gene for the light and heavy chains of myeloperoxidase
6492	19658	33021	1.67	0.0E+00	X15377.1	NT	Human gene for the light and heavy chains of myeloperoxidase
6494	19660	33023	1.17	0.0E+00	AA456375.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6495	19661	33024	1.04	0.0E+00	AI812841.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6501	19667	33030	4.27	0.0E+00	BE735999.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6501	19667	33031	4.27	0.0E+00	BE735999.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6505	19671	33037	0.86	0.0E+00	AW748596.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6505	19671	33038	0.86	0.0E+00	AW748596.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6507	19673	33040	52.21	0.0E+00	AU119245.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6507	19673	33041	52.21	0.0E+00	AU119245.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6512	19677	33047	0.8	0.0E+00	BE780483.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6513	19678	33048	0.84	0.0E+00	X92217.1	NT	Human gene for the light and heavy chains of myeloperoxidase
6527	19691	33055	1.71	0.0E+00	AI889483.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6541	19704	33076	4.08	0.0E+00	BE293183.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6541	19704	33077	4.08	0.0E+00	BE293183.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6573	19735	33114	1.07	0.0E+00	BE867657.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6608	19789	33158	1.81	0.0E+00	AW406348.1	EST_HUMAN	UIHF-BLG-eco-h-02-0-UI.1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059931 5'
6609	19789	33159	1.81	0.0E+00	AW406348.1	EST_HUMAN	UIHF-BLG-eco-h-02-0-UI.1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059931 5'
6640	19789	33188	0.84	0.0E+00	AV719444.1	EST_HUMAN	AV719444 GLC Homo sapiens cDNA clone GLCEHC08 5'
6649	19808	33195	0.74	0.0E+00	BE898340.1	EST_HUMAN	601681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5'
6649	19808	33196	0.74	0.0E+00	BE898340.1	EST_HUMAN	601681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5'
6652	19811	33199	2.13	0.0E+00	AF160860.1	NT	Homo sapiens low voltage-activated T-type calcium channel alpha 1G splice variant Cav1.1a (CACNA1G) mRNA, complete cds
6655	19814	33202	0.64	0.0E+00	L48546.1	NT	Homo sapiens tuberin (TSC2) gene, exons 38, 39, 40 and 41
6657	19816	33203	0.89	0.0E+00	11420658	NT	Homo sapiens transformation/transcription domain-associated protein (TRRAP), mRNA
6664	19823	33210	3.5	0.0E+00	AW163840.1	EST_HUMAN	au86108.Y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR-O15390 O15390 GT24. [3] TR-O43840 TR-O43208;
6664	19823	33211	3.5	0.0E+00	AW163840.1	EST_HUMAN	au86108.Y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR-O15390 O15390 GT24. [3] TR-O43840 TR-O43208;
6668	19827	33214	1.06	0.0E+00	W37163.1	EST_HUMAN	zb20606.r1 Soares_fetal_lung_NHL18W Homo sapiens cDNA clone IMAGE:302628 5' similar to SW:ZN45 HUMAN Q02396 ZINC FINGER PROTEIN 45;
6668	19827	33215	1.06	0.0E+00	W37163.1	EST_HUMAN	zb20606.r1 Soares_fetal_lung_NHL18W Homo sapiens cDNA clone IMAGE:302628 5' similar to SW:ZN45 HUMAN Q02396 ZINC FINGER PROTEIN 45;
6684	19842	33232	1.21	0.0E+00	BE794953.1	EST_HUMAN	601588371F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943504 5'
6691	19849	33239	5.1	0.0E+00	BE799873.1	EST_HUMAN	601587561F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3941847 5'
6692	19850	33240	1.38	0.0E+00	BE767955.1	EST_HUMAN	QV1-GN0065-140800-318-h02 GN0065 Homo sapiens cDNA
6692	19850	33241	1.38	0.0E+00	BE767955.1	EST_HUMAN	QV1-GN0065-140800-318-h02 GN0065 Homo sapiens cDNA
6696	19854	33244	6.83	0.0E+00	BE869813.1	EST_HUMAN	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
6696	19854	33245	6.83	0.0E+00	BE869813.1	EST_HUMAN	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
6705	19863	33253	4.51	0.0E+00	L24493.1	NT	Human antigen CD27 gene, exons 1-2
6710	19868	33257	2.62	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
6710	19868	33258	2.62	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
6716	19874	33265	3.68	0.0E+00	6005983	NT	Homo sapiens zona pellucida glycoprotein 3A (sparm receptor) (ZP3A), mRNA
6720	19877	33268	4.12	0.0E+00	A1638412.1	EST_HUMAN	t83111.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:2242413 3' similar to SW:WNT3_MOUSE P17553 WNT-3 PROTO-ONCOGENE PROTEIN PRECURSOR;
6722	19879	33270	1.46	0.0E+00	L32832.1	NT	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
6735	19891	33283	0.82	0.0E+00	AW505450.1	EST_HUMAN	UIHF-BNO-ama-o-01-0-UI.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3081217 5'
6737	19893	33284	4.11	0.0E+00	AA434584.1	EST_HUMAN	zw62d03.r1 Soares_fetal_lung_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773668 5'
6751	19907	33291	1.13	0.0E+00	BF217200.1	EST_HUMAN	601685317F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103693 5'
6756	19912	33307	1.63	0.0E+00	BE926876.1	EST_HUMAN	QV3-BN0047-300800-278-06 BN0047 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6789	19944	33342	0.78	0.0E+00	11426798	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6789	19944	33343		0.0E+00	11426798	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6789	19945	33345	0.58	0.0E+00	AW611984.1	EST_HUMAN	hg82604.x1 NCI_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2852126 3'
6808	19962	33366	1.64	0.0E+00	AU126928.1	EST_HUMAN	AU126928 NT2RM4 Homo sapiens cDNA clone NT2RM4002430 5'
6810	19964	33368	0.58	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-H10 NN0174 Homo sapiens cDNA
6810	19964	33369	0.58	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-H10 NN0174 Homo sapiens cDNA
6832	19985	33393	1.27	0.0E+00	BE142383.1	EST_HUMAN	CM0-HT0143-270889-062-d08 HT0143 Homo sapiens cDNA
6854	20007	33416	2.43	0.0E+00	BE06012.1	EST_HUMAN	RCO-BN0121-280300-032-e04 BN0121 Homo sapiens cDNA
6854	20007	33417	2.43	0.0E+00	BE06012.1	EST_HUMAN	RCO-BN0121-280300-032-e04 BN0121 Homo sapiens cDNA
6876	20028	33438	7.79	0.0E+00	BE160131.1	EST_HUMAN	RCO-BN0121-280300-032-e04 BN0121 Homo sapiens cDNA
6878	20030	33440	2.04	0.0E+00	BF085667.1	EST_HUMAN	PM3-HT0520-230200-002-d08 HT0520 Homo sapiens cDNA
6815	20230	33663	3.33	0.0E+00	AA190755.1	EST_HUMAN	IL5-GN0032-180900-145-d67 GN0032 Homo sapiens cDNA
6826	20241	33676	0.83	0.0E+00	U39573.1	NT	zp88e03.r1 Strategene Hela cell c3 937218 Homo sapiens cDNA clone IMAGE:627292 5'
							Human salivary peroxidase mRNA, complete cds
6930	20245	33678	0.78	0.0E+00	BE671987.1	EST_HUMAN	7a49b07.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:3222037 3' similar to TR:Q8Z285 Q9Z285
6940	20253	33689	5.73	0.0E+00	AB940621.1	EST_HUMAN	TEKTIN.1
6940	20253	33690	5.73	0.0E+00	AB940621.1	EST_HUMAN	IL3-ST0024-230788-001-B01 ST0024 Homo sapiens cDNA
6951	20264	33703	2.15	0.0E+00	11435628	NT	Homo sapiens CD8 antigen (CD8), mRNA
6963	20191	33817	0.73	0.0E+00	AL042443.1	EST_HUMAN	DKFZp434D2021_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434D2021 6'
6964	20182	33818	11.05	0.0E+00	X58163.1	NT	H. sapiens Immunoglobulin heavy chain gene, variable region
6967	20195	33621	0.92	0.0E+00	AI168270.1	EST_HUMAN	co10d01.x1 Soares_NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1565761 3' similar to TR:Q26623 Q26623 TEKTIN C1.1
6972	20200	33626	0.85	0.0E+00	BE734087.1	EST_HUMAN	901667370F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842080 5'
6991	18510	31502	1.28	0.0E+00	BE566381.1	EST_HUMAN	601339977F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3682267 6'
6998	18517	31509	13.63	0.0E+00	BE867893.1	EST_HUMAN	601443667F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847697 5'
6998	18517	31510	13.63	0.0E+00	BE867893.1	EST_HUMAN	601443667F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847697 5'
7004	20140	33559	1.74	0.0E+00	BE550162.1	EST_HUMAN	7b49f03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231581 3' similar to SW:GG95_HUMAN
7004	20140	33559	1.74	0.0E+00	BE550162.1	EST_HUMAN	Q08379 GOLGIN-95.1
7030	20166	33598	1.66	0.0E+00	BF088376.1	EST_HUMAN	Q08379 GOLGIN-95.1
7036	20172	33594	1.4	0.0E+00	AA195108.1	EST_HUMAN	CM1-HT0877-080800-397-g11 HT0877 Homo sapiens cDNA
							z04g03.r1 Soares_NIHMPu_S1 Homo sapiens cDNA clone IMAGE:665332 5'

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7044	20097		11.81	0.0E+00	11034810	NT	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA
7048	20099	33515	1.11	0.0E+00	11431474	NT	Homo sapiens sodium channel, nonvoltage-gated 1, beta (Liddle syndrome) (SCNN1B), mRNA
7061	20114	33529	2.89	0.0E+00	BF699303.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310078 5'
7068	20121	33535	0.86	0.0E+00	4557364	NT	Homo sapiens Bloom syndrome (BLM) mRNA
7078	20128		2.06	0.0E+00	J03088.1	NT	Human MYQL2 gene, complete cds
7083	20177	33599	2.66	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
7083	20177	33600	2.66	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
7084	20178	33601	1.07	0.0E+00	M38113.1	NT	Human neurofibromatosis type 1 gene, exon x6
7085	18522	31515	3.59	0.0E+00	11420775	NT	Homo sapiens melanoma antigen, family B, 2 (MAGEB2), mRNA
7089	18526	31518	0.7	0.0E+00	BE268708.1	EST_HUMAN	601115515F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3356330 5'
							wf21c09.x1 Soares_Diagnostic_cdon_NHUC Homo sapiens cDNA clone IMAGE:2351248 3' similar to gb:M74297 HOMEBOX PROTEIN HOX-A4 (HUMAN); contains PTR5.b1 MER22 MER22 repetitive element;
7111	18537	31493	0.62	0.0E+00	A1608911.1	EST_HUMAN	wf21c09.x1 Soares_Diagnostic_cdon_NHUC Homo sapiens cDNA clone IMAGE:2351248 3' similar to gb:M74297 HOMEBOX PROTEIN HOX-A4 (HUMAN); contains PTR5.b1 MER22 MER22 repetitive element;
7111	18537	31494	0.62	0.0E+00	A1608911.1	EST_HUMAN	
7120	18546	31457	1.21	0.0E+00	AU118478.1	EST_HUMAN	AU118478 HEMBA1 Homo sapiens cDNA clone HEMBA1003679 5'
7123	18549	31461	7.52	0.0E+00	BE262941.1	EST_HUMAN	601148954F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3501829 5'
7124	18550	31462	2.72	0.0E+00	Z37876.1	NT	H. sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
7124	18550	31463	2.72	0.0E+00	Z37876.1	NT	H. sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
7125	18551	31464	3.01	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7125	18551	31465	3.01	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7132	18558	31472	1.26	0.0E+00	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
7137	20272	33711	0.61	0.0E+00	BE762770.1	EST_HUMAN	QV3-NT0022-140600-228-f01 NT0022 Homo sapiens cDNA
7142	20277	33717	2.56	0.0E+00	BF689005.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310078 5'
7144	20279	33719	0.78	0.0E+00	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
7144	20279	33720	0.78	0.0E+00	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
7148	20283	33726	3.26	0.0E+00	L01976.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
7153	20287	33729	0.72	0.0E+00	AW502362.1	EST_HUMAN	Human type IV sodium channel alpha polypeptide (SCN4A) gene, exon 19
7153	20287	33730	0.72	0.0E+00	AW502362.1	EST_HUMAN	UH-HF-BR0p-aka-d-10-Q-UJ.r1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:3076290 5'
7162	20296	33738	0.87	0.0E+00	AL038581.1	EST_HUMAN	UH-HF-BR0p-aka-d-10-Q-UJ.r1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076290 5'
7162	20296	33739	0.87	0.0E+00	AL038581.1	EST_HUMAN	DKFZP434D2211.1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZP434D2211 5'
7171	20304	33747	5.81	0.0E+00	BF306936.1	EST_HUMAN	DKFZP434D2211.1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZP434D2211 5'
							601868823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7177	20309	33752	2.13	0.0E+00	U41302.1	NT	Human chromosome 18 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds
7219	20084	33499	1.15	0.0E+00	AL049794.1	NT	Novel human gene mapping to chromosome 13
7225	20089	33506	0.64	0.0E+00	AW513069.1	EST_HUMAN	xx0402.x1 NC1_CGAP_U1 Homo sapiens cDNA clone IMAGE:2706458 3' similar to TR:084885 084885 KIAA0803 PROTEIN;
7257	20340	33780	0.62	0.0E+00	AB026883.1	NT	Homo sapiens mRNA for vascular cadherin-2, complete cds
7257	20340	33781	0.62	0.0E+00	AB026883.1	NT	Homo sapiens mRNA for vascular cadherin-2, complete cds
7262	20345	33797	0.84	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7262	20345	33788	0.84	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7268	20351	33804	1.16	0.0E+00	AW554808.1	EST_HUMAN	EST366876 MAGE sequences, MAGC Homo sapiens cDNA
7269	20352	33806	0.72	0.0E+00	BE264103.1	EST_HUMAN	60113958F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354568 5'
7283	20366	33819	1	0.0E+00	L01973.1	NT	Human type VI sodium channel alpha polypeptide (SCN4A) gene, exon 14
7291	20373	33829	1.03	0.0E+00	AB007835.1	NT	Homo sapiens mRNA for KIAA0468 protein, partial cds
7291	20373	33830	1.03	0.0E+00	AB007835.1	NT	Homo sapiens mRNA for KIAA0468 protein, partial cds
7297	20379	33837	1.47	0.0E+00	AU133213.1	EST_HUMAN	AU133213 NT2RP4 Homo sapiens cDNA clone NT2RP4001556 5'
7313	20385	33857	1.06	0.0E+00	11428081	NT	Homo sapiens membrane protein CH1 (CH1), mRNA
7319	20401		2.82	0.0E+00	AU1437063.1	EST_HUMAN	AU143706 Y78AA1 Homo sapiens cDNA clone Y78AA1002365 5'
7320	20402	33864	0.71	0.0E+00	4758839	NT	Homo sapiens netrin 1 (NTN1), mRNA
7329	20411	33872	1.25	0.0E+00	BE891286.1	EST_HUMAN	601431819F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917164 5'
7329	20411	33873	1.25	0.0E+00	BE891286.1	EST_HUMAN	601431819F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917164 5'
7350	18569	31436	2.43	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7350	18569	31437	2.43	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7361	20440	33901	0.67	0.0E+00	BE747231.1	EST_HUMAN	601580948F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929722 5'
7361	20440	33902	0.67	0.0E+00	BE747231.1	EST_HUMAN	601580948F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929722 5'
7371	20450	33913	4.07	0.0E+00	11436639	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
7371	20450	33914	4.07	0.0E+00	11436639	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
7385	20463	33927	0.63	0.0E+00	AF22744.1	NT	Homo sapiens voltage-dependent calcium channel alpha 1G subunit isoform aa (CACNA1G) mRNA, complete cds
7406	20484	33962	36.37	0.0E+00	AH128344.1	EST_HUMAN	qc67a07.x1 Soares placenta 8tb9weeks 2NBHP8tb9W Homo sapiens cDNA clone IMAGE:1714644 3' similar to SW:ARSD_HUMAN P51689 ARYL SULFATASE D PRECURSOR, contains element HGR repetitive element;
7408	20484	33963	36.37	0.0E+00	AH128344.1	EST_HUMAN	qc67a07.x1 Soares placenta 8tb9weeks 2NBHP8tb9W Homo sapiens cDNA clone IMAGE:1714644 3' similar to SW:ARSD_HUMAN P51689 ARYL SULFATASE D PRECURSOR, contains element HGR repetitive element;

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7408	20488	33955	0.74	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor 12R9 gene, complete cds
7408	20488	33958	0.74	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor 12R9 gene, complete cds
7410	20488	33958	5.41	0.0E+00	114263382	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7410	20488	33959	5.41	0.0E+00	114263382	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7413	20491		13.11	0.0E+00	BF337375.1	EST_HUMAN	602035089F1 NC1 CGAP_Bim64 Homo sapiens cDNA clone IMAGE:4182839 5'
7415	20493	33961	3.49	0.0E+00	AA128453.1	EST_HUMAN	z660709.11 Stratiogene muscle 937209 Homo sapiens cDNA clone IMAGE:562601 5' similar to TR:Q808562
7420	20497	33967	0.77	0.0E+00	AL079497.1	EST_HUMAN	DKFZp434B0226_11 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434B0226 5'
7420	20497	33968	0.77	0.0E+00	AL079497.1	EST_HUMAN	DKFZp434B0226_11 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434B0226 5'
7431	20508	33980	0.69	0.0E+00	AJ270996.1	NT	Homo sapiens partial mRNA for LTRPC5 protein (LTRPC5 gene)
7461	20536	34011	1.13	0.0E+00	BE295499.1	EST_HUMAN	601174576F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529794 5'
7463	20538	34012	0.91	0.0E+00	11427985	NT	Homo sapiens hypothetical protein (FLJ20281), mRNA
7466	20541		1.33	0.0E+00	AU118607.1	EST_HUMAN	AU118607 HEMBA1 Homo sapiens cDNA clone HEMBA1003689 5'
7467	20542	34015	1.71	0.0E+00	AF005213.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
7467	20542	34016	1.71	0.0E+00	AF005213.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
7479	20564	34026	0.83	0.0E+00	AF245505.1	NT	Homo sapiens adiclin mRNA, complete cds
7487	20562	34031	6.47	0.0E+00	X70172.1	NT	H. sapiens DNA for ZNGP2 pseudogene, exon 4
7489	20564	34033	5.81	0.0E+00	U45448.1	NT	Human P2x1 receptor mRNA, complete cds
7489	20564	34034	5.81	0.0E+00	U45448.1	NT	Human P2x1 receptor mRNA, complete cds
7502	20577	34049	0.89	0.0E+00	AW956503.1	EST_HUMAN	EST3368573 MAGC resequences, MAGD Homo sapiens cDNA
7604	20679	34051	2.31	0.0E+00	AW950516.1	EST_HUMAN	EST362588 MAGC resequences, MAGA Homo sapiens cDNA
7531	20604	34078	1.03	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa,S.C.) Homo sapiens cDNA clone kappa_200
7531	20604	34079	1.03	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa,S.C.) Homo sapiens cDNA clone kappa_200
7531	20604	34080	1.03	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa,S.C.) Homo sapiens cDNA clone kappa_200
7552	20624		0.58	0.0E+00	M80354.1	NT	Human BTF3 protein homologue gene, complete cds
7553	20625	34101	0.9	0.0E+00	BE408283.1	EST_HUMAN	601302679F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3637434 5'
7580	20652		1.09	0.0E+00	R87430.1	EST_HUMAN	ym88h10.1 Scores adult brain N2b4HB56Y Homo sapiens cDNA clone IMAGE:166051 5'
7581	20653	34129	1.81	0.0E+00	AW239326.1	EST_HUMAN	x639a06.y1 NC1 CGAP_Lu31 Homo sapiens cDNA clone IMAGE:2578640 5' similar to TR:Q08050 Q08050
7600	20670		1.5	0.0E+00	AU117553.1	EST_HUMAN	HNPF3FH TRANSCRIPTION FACTOR GENESIS ;
7602	20672	34146	3.8	0.0E+00	11427135	NT	AU117553 HEMBA1 Homo sapiens cDNA clone HEMBA1001661 5'
7622	20692	34168	0.82	0.0E+00	AA211953.1	EST_HUMAN	Homo sapiens glucagon-like peptide 2 receptor (GLP2R), mRNA
7629	20698	34174	0.63	0.0E+00	BF229235.1	EST_HUMAN	z65802.11 Stratiogene muscle 937209 Homo sapiens cDNA clone IMAGE:562203 5' similar to gb:X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7634	20703	34182	0.67	0.0E+00	AW405627.1	EST_HUMAN	U1HF-BLO-ats-d07-Q-U1L1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3057488 5'
7641	20710	34189	0.8	0.0E+00	L32832.1	NT	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
7667	20733	34209	0.9	0.0E+00	BF306996.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7667	20733	34210	0.9	0.0E+00	BF306996.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7675	20740	34220	1.06	0.0E+00	AU118787.1	EST_HUMAN	AU118787/HEMBA1 Homo sapiens cDNA clone HEMBA1004314 5'
7733	20794	34281	4.41	0.0E+00	A1752561.1	EST_HUMAN	cn17d05.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17d05 random
7733	20794	34282	4.41	0.0E+00	A1752561.1	EST_HUMAN	cn17d05.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17d05 random
7768	20852	34344	0.6	0.0E+00	AL046347.2	EST_HUMAN	DKFZp134J087_t1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434J087 5'
7813	20868	34363	1.79	0.0E+00	AF064205.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7813	20868	34364	1.79	0.0E+00	AF064205.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7821	20876	34375	1.34	0.0E+00	U74315.1	EST_HUMAN	HSU74315 Human chromosome 14 Homo sapiens cDNA clone 1-4
7835	20890	34392	1	0.0E+00	11417342	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA
7863	20917	34422	0.7	0.0E+00	A1825504.1	EST_HUMAN	wb17g05.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2305976 3' similar to TR:O75363 O75363 ABC1.;
7863	20917	34423	0.7	0.0E+00	A1825504.1	EST_HUMAN	wb17g05.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2305976 3' similar to TR:O75363 O75363 ABC1.;
7871	20926	34432	1.84	0.0E+00	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
7877	20929	34435	0.98	0.0E+00	N76126.1	EST_HUMAN	z886a05.x1 Soares_fetal_jung_NbHL19W Homo sapiens cDNA clone IMAGE:299456 3'
7881	20933	34438	6.1	0.0E+00	BF217805.1	EST_HUMAN	601886485F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103729 5'
7886	20938	34444	0.62	0.0E+00	BF569862.1	EST_HUMAN	602185808F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310256 5'
7893	20943	34449	3.52	0.0E+00	AU129622.1	EST_HUMAN	AU129622 NT2RP2 Homo sapiens cDNA clone NT2RP2005913 5'
7911	20955	34469	0.95	0.0E+00	AW069274.1	EST_HUMAN	cr42a09.x1 Jla bone marrow stroma Homo sapiens cDNA clone HEMSC_cr42a09 3'
7911	20955	34470	0.95	0.0E+00	AW069274.1	EST_HUMAN	cr42a09.x1 Jla bone marrow stroma Homo sapiens cDNA clone HEMSC_cr42a09 3'
7915	20968	34472	6.67	0.0E+00	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
7922	20973	34479	0.92	0.0E+00	AV758467.1	EST_HUMAN	AV758467 BM Homo sapiens cDNA clone BMFBGG05 5'
7924	20974	34480	5.78	0.0E+00	BE739870.1	EST_HUMAN	601563166F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947365 5'
7924	20974	34481	5.78	0.0E+00	BE739870.1	EST_HUMAN	601563166F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947365 5'
7925	20975	34482	0.76	0.0E+00	6912461	NT	Homo sapiens atrophilin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7925	20976	34483	0.76	0.0E+00	6912461	NT	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA
7926	20976	34484	1.05	0.0E+00	AU120424.1	EST_HUMAN	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 5'
7926	20976	34485	1.05	0.0E+00	AU120424.1	EST_HUMAN	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 5'
7948	20988	34508	12.57	0.0E+00	BF590267.1	EST_HUMAN	nas22a04.x1 Scores_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3263214 3' similar to contains element TAR1 repetitive element;
7959	21009	34519	1.86	0.0E+00	BE787610.1	EST_HUMAN	601481713F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884258 5'
7959	21009	34520	1.86	0.0E+00	BE787610.1	EST_HUMAN	601481713F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884258 5'
7988	21048	34561	0.63	0.0E+00	Y16795.1	NT	Homo sapiens psithaA pseudogene
7989	21049	34562	3.86	0.0E+00	A346148.1	EST_HUMAN	qp43005.x1 NCL_CGAP_Co6 Homo sapiens cDNA clone IMAGE:1925783 3' similar to SW:EVX1_HUMAN
8001	21061	34584	0.66	0.0E+00	W52673.1	EST_HUMAN	P49640 HOMEBOXEVEN-SKIPPED HOMOLOG PROTEIN 1;
8002	21052	34585	0.68	0.0E+00	11426128	NT	zs30710.l1 Pancreatic Islet Homo sapiens cDNA clone IMAGE:338443 5'
8003	21053	34586	0.59	0.0E+00	AU117333.1	EST_HUMAN	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC33433), mRNA
8004	21054		0.57	0.0E+00	BE613663.1	EST_HUMAN	AU117333 HEMBA1 Homo sapiens cDNA clone HEMBA1001175 5'
8018	21068	34580	0.73	0.0E+00	6995995	NT	601504084F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3905733 5'
8018	21068	34581	0.73	0.0E+00	6995995	NT	Homo sapiens cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR), mRNA
8037	21120	34640	0.49	0.0E+00	AU133187.1	EST_HUMAN	Homo sapiens cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR), mRNA
8083	21165		0.69	0.0E+00	BF217200.1	EST_HUMAN	AU133187 NT2RP4 Homo sapiens cDNA clone NT2RP4001507 5'
8096	21178	34686	0.61	0.0E+00	BE313013.1	EST_HUMAN	601885317F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103683 5'
8108	21180	34710	1.36	0.0E+00	AA149791.1	EST_HUMAN	601150347F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503050 5'
8121	21203	34724	0.72	0.0E+00	BF026628.1	EST_HUMAN	z601c08.l1 Stratiogene colon (#937204) Homo sapiens cDNA clone IMAGE:568410 5'
8136	21217	34738	0.35	0.0E+00	AA017021.1	EST_HUMAN	601672310F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3955131 5'
8163	21235	34756	2.06	0.0E+00	BE736046.1	EST_HUMAN	z633H08.l1 Scores retina N2b-4HR Homo sapiens cDNA clone IMAGE:360831 5'
8170	21262	34772	3.19	0.0E+00	M34872.1	NT	601305558F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639903 5'
8170	21262	34773	3.19	0.0E+00	M34872.1	NT	Human amyloid-beta protein (APP) gene, exon 11
8200	21282	34804	0.56	0.0E+00	AW 674581.1	EST_HUMAN	Human amyloid-beta protein (APP) gene, exon 11
8200	21282	34805	0.56	0.0E+00	AW 674581.1	EST_HUMAN	b634402.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2985123 5' similar to TR:O64652 O64652
8207	21289	34811	2.07	0.0E+00	AA397551.1	EST_HUMAN	F17K2.26 PROTEIN.; F17K2.26 PROTEIN.; z811004.l1 Stratiogene schizobrain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8209	21291	34812	0.85	0.0E+00	AW387131.1	EST_HUMAN	MRO-ST0031-061098-003-at11 ST0031 Homo sapiens cDNA
8212	21294		0.64	0.0E+00	AB020691.1	NT	Homo sapiens mRNA for KIAA0884 protein, partial cds
8213	21295	34814	0.15	0.0E+00	AU142402.1	EST_HUMAN	AU142402 Y79AA1 Homo sapiens cDNA clone Y79AA1000277 5'
8218	21298	34818	0.88	0.0E+00	BE389421.1	EST_HUMAN	601285550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
8216	21298	34819	0.86	0.0E+00	BE389421.1	EST_HUMAN	601285550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
8231	21313	34833	0.59	0.0E+00	7657276	NT	Homo sapiens killer cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 1 (KIR2DS1), mRNA
8233	21315	34835	0.84	0.0E+00	W96278.1	EST_HUMAN	z605d01.1 Soares fetal heart_NbHH19W Homo sapiens cDNA clone IMAGE:358081 5'
8235	21315	34836	0.84	0.0E+00	W96278.1	EST_HUMAN	z605d01.1 Soares fetal heart_NbHH19W Homo sapiens cDNA clone IMAGE:358081 5'
8235	21317		4.11	0.0E+00	BF673098.1	EST_HUMAN	602153008F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4294128 5'
8239	21321		0.93	0.0E+00	AU134114.1	EST_HUMAN	AU134114 OVARC1 Homo sapiens cDNA clone OVARC1001286 5'
8253	21335	34853	0.95	0.0E+00	BF525534.1	EST_HUMAN	602069632F1 NCL_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4212727 5'
8253	21335	34854	0.95	0.0E+00	BF525534.1	EST_HUMAN	602069632F1 NCL_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4212727 5'
8285	21367	34886	1.35	0.0E+00	AL120124.1	EST_HUMAN	DKFZp781P092.1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp781P092 5'
8285	21367	34887	1.35	0.0E+00	AL120124.1	EST_HUMAN	DKFZp781P092.1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp781P092 5'
8285	21410		1.16	0.0E+00	BE877693.1	EST_HUMAN	601485254F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887773 5'
8351	21432	34956	1.27	0.0E+00	AW500549.1	EST_HUMAN	U1HF-BN0-alk-4-01-0-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077486 5'
8359	21440	34982	14.12	0.0E+00	AW157233.1	EST_HUMAN	au83b08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783799 3' similar to TR:O80463 O80463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE [1];
8376	21457	34981	0.68	0.0E+00	AW072895.1	EST_HUMAN	z607d12.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2567639 3' similar to contains element OFR repetitive element;
8394	21475	35002	1.11	0.0E+00	11421722	NT	Homo sapiens centrosomal protein 2 (CEP2), mRNA
8397	21478	35005	0.97	0.0E+00	W01616.1	EST_HUMAN	z606d05.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:284633 5'
8399	21480	35007	1.3	0.0E+00	BE745597.1	EST_HUMAN	601578195F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926988 5'
8399	21480	35008	1.3	0.0E+00	BE745597.1	EST_HUMAN	601578195F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926988 5'
8411	21492	35022	1.13	0.0E+00	AJ271735.1	NT	Homo sapiens Xq pseudocentromeric region; segment 1/2
8431	21512	35043	0.46	0.0E+00	D45032.1	NT	Human DNA for ceruloplasmin, exon 5
8450	21531	35060	0.53	0.0E+00	AB67950.1	EST_HUMAN	q165c12.x1 NCL_CGAP_U12 Homo sapiens cDNA clone IMAGE:1989334 3' similar to TR:Q14673 Q14673 KIAA0164 PROTEIN;
8462	21543	35073	2.23	0.0E+00	BE674157.1	EST_HUMAN	T676a04.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278962 3' similar to TR:O86783 O86783 STAU6EN PROTEIN;
8464	21545	35075	1.98	0.0E+00	AB85871.1	EST_HUMAN	W60b10.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2428275 3' similar to SW:COGT_HUMAN P50281 MATRIX METALLOPROTEINASE-14 PRECURSOR;
8477	21558	35081	1.47	0.0E+00	BE563650.1	EST_HUMAN	601334790F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688655 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8477	21558	35092	1.47	0.0E+00	BE563650.1	EST_HUMAN	601334700F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688655 5'
8485	21568	35102	1.72	0.0E+00	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8485	21566	35103	1.72	0.0E+00	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8487	21568	35105	0.84	0.0E+00	AA403192.1	EST_HUMAN	z63602.1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD.;
8487	21568	35106	0.84	0.0E+00	AA403192.1	EST_HUMAN	z63602.1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD.;
8528	21609		3.61	0.0E+00	AA399511.1	EST_HUMAN	PROHIBITIN (HUMAN);
8537	21618	35155	0.5	0.0E+00	BE637593.1	EST_HUMAN	RC2-FN0094-120600-013-h07 FN0094 Homo sapiens cDNA
8538	21619	35156	1.34	0.0E+00	AW394874.1	EST_HUMAN	QV3-DT0045-221289-046-c07 DT0045 Homo sapiens cDNA
8538	21619	35157	1.34	0.0E+00	AW394874.1	EST_HUMAN	QV3-DT0045-221289-046-c07 DT0045 Homo sapiens cDNA
8557	21638	35176	1.24	0.0E+00	BE612866.1	EST_HUMAN	601452412F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3656179 5'
8557	21638	35177	1.24	0.0E+00	BE612866.1	EST_HUMAN	601452412F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3656179 5'
8572	21653	35194	1.16	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8572	21653	35195	1.16	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8581	21662	35202	0.93	0.0E+00	A1884477.1	EST_HUMAN	CYTOSOLIC PHOSPHOLIPASE A2-GAMMA. ;
8588	21669	35208	0.71	0.0E+00	AA507294.1	EST_HUMAN	ne25d10.a1 NCL_CGAP_C03 Homo sapiens cDNA clone IMAGE:882259 3' similar to TR:G1138434
8593	21674		0.86	0.0E+00	11416709	NT	G1138434 KIAA0187 PROTEIN. ;
8601	21682	35220	0.52	0.0E+00	A1580780.1	EST_HUMAN	Homo sapiens protocadherin beta 3 (PCDH3), mRNA
8604	21685		2.08	0.0E+00	BE690787.1	EST_HUMAN	ts04f11.x1 Soares_pregnant_uterus_Nb4IPU Homo sapiens cDNA clone IMAGE:2043117 3'
8630	21710	35246	0.61	0.0E+00	AW245765.1	EST_HUMAN	601431288F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916569 5'
8630	21710	35247	0.61	0.0E+00	AW245765.1	EST_HUMAN	2822701.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701 5'
8631	21711	35248	2.13	0.0E+00	4758695	NT	2822701.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701 5'
8631	21711	35249	2.13	0.0E+00	4758695	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA
8635	21715	35252	0.61	0.0E+00	U89084.1	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA
8635	21715	35253	0.61	0.0E+00	U89084.1	NT	Human zinc finger protein (ZNF165), gene, exons 2 and 3
8697	21777	35309	0.46	0.0E+00	U84744.1	NT	Human zinc finger protein (ZNF165), gene, exons 2 and 3
8704	21784	35317	0.7	0.0E+00	AJ251760.1	NT	Human Chediak-Higashi syndrome protein short isoform (LYS1) mRNA, complete cds
8709	21789	35323	2.81	0.0E+00	X98922.1	NT	Homo sapiens NESP55, GNAS1 antisense (partial) and Xlaphas (partial) genes
8709	21789	35324	2.81	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8709	21789	35325	2.81	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8723	21803	35339	0.78	0.0E+00	U82978.1	NT	Human immunoglobulin-like transcript-3 mRNA, complete cds
8765	21844	35395	0.81	0.0E+00	AF022655.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8765	21844	35396	0.81	0.0E+00	AF022655.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8768	21847	35398	0.87	0.0E+00	AU131671.1	EST_HUMAN	AU131671 NT2RP3 Homo sapiens cDNA clone NT2RP3003016 5'
8784	21863	35406	0.64	0.0E+00	11426572	NT	Homo sapiens immunoglobulin superfamily, member 2 (IGSF2), mRNA
8788	21867		1.35	0.0E+00	AW513513.1	EST_HUMAN	304601.x1 NCL_CGAP_UH Homo sapiens cDNA clone IMAGE:2707032 3' similar to gb:M14123_cds4
8790	21869		0.94	0.0E+00	BE783232.1	EST_HUMAN	RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN);
8791	21870	35409	1.62	0.0E+00	D52850.1	EST_HUMAN	6014721.68F1 NIH_MGC.67 Homo sapiens cDNA clone IMAGE:3874812 5'
8823	21902	35442	4.15	0.0E+00	BE378465.1	EST_HUMAN	HUM0840C2B Clontech human fetal brain polyA+ mRNA (#6595) Homo sapiens cDNA clone GEN-084C02
8829	21908	35446	2.15	0.0E+00	AA410645.1	EST_HUMAN	5'
8831	21910		1.35	0.0E+00	BF318946.1	EST_HUMAN	1236488F1 NIH_MGC.44 Homo sapiens cDNA clone IMAGE:3608709 5'
							z32604.1 Scores ovary tumor NBHOT Homo sapiens cDNA clone IMAGE:724062 5'
							601800671F1 NIH_MGC.19 Homo sapiens cDNA clone IMAGE:4129744 5'
							Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (IL1RBS), mRNA
8838	21917	35455	0.54	0.0E+00	11424397	NT	
8843	21922	35460	1.41	0.0E+00	AW139673.1	EST_HUMAN	U141811-act-a-12-0-U1.s1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717887 3'
8843	21922	35461	1.41	0.0E+00	AW139673.1	EST_HUMAN	U141811-act-a-12-0-U1.s1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717887 3'
8879	21958	35483	2.16	0.0E+00	BE280272.1	EST_HUMAN	601150051F1 NIH_MGC.19 Homo sapiens cDNA clone IMAGE:3502838 5'
8884	21963	35487	2.91	0.0E+00	BF700165.1	EST_HUMAN	602127664F1 NIH_MGC.56 Homo sapiens cDNA clone IMAGE:4284542 5'
8884	21963	35498	2.91	0.0E+00	BF700165.1	EST_HUMAN	602127664F1 NIH_MGC.56 Homo sapiens cDNA clone IMAGE:4284542 5'
8884	21963	35499	2.91	0.0E+00	BF700165.1	EST_HUMAN	602127664F1 NIH_MGC.56 Homo sapiens cDNA clone IMAGE:4284542 5'
8823	22002	35541	0.84	0.0E+00	AL449770.1	EST_HUMAN	AL449770 Homo sapiens fetal brain (Slavides GS) Homo sapiens cDNA
							068002.s1 NCL_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1602194 3' similar to gb:M36072.60S
8830	22008	35547	3.69	0.0E+00	AA962527.1	EST_HUMAN	RIBOSOMAL PROTEIN L7A (HUMAN);
8836	22015	35555	3.41	0.0E+00	10947037	NT	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
8836	22015	35556	3.41	0.0E+00	10947037	NT	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
8861	22040	35583	1.65	0.0E+00	Y11107.3	NT	Homo sapiens ITGB4 gene for integrin beta 4 subunit, exons 3-41
8863	22042	35585	1.09	0.0E+00	BE278817.1	EST_HUMAN	601150330F1 NIH_MGC.21 Homo sapiens cDNA clone IMAGE:3139794 5'
8873	22052		2.86	0.0E+00	AV718377.1	EST_HUMAN	AV718377 FHTB Homo sapiens cDNA clone FHTBAAF11 5'
							xv73e07.x1 NCL_CGAP_Parr1 Homo sapiens cDNA clone IMAGE:2833644 3' similar to gb:X63587
8880	22059	35600	3.12	0.0E+00	AW33727.1	EST_HUMAN	INTEGRIN BETA-4 SUBUNIT PRECURSOR (HUMAN);
8886	22065	35605	1.59	0.0E+00	AU124051.1	EST_HUMAN	AU124051 NT2RM2 Homo sapiens cDNA clone NT2RM2001575 5'
9063	22142	35687	0.98	0.0E+00	AU140704.1	EST_HUMAN	AU140704 PLACE4 Homo sapiens cDNA clone PLACE4000089 5'
9073	22152	35696	0.64	0.0E+00	AB007823.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9078	22157	35700	0.88	0.0E+00	R17132.1	EST_HUMAN	y009a09.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:31674 5'
9078	22157	35701	0.88	0.0E+00	R17132.1	EST_HUMAN	y009a09.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:31674 5'
9082	22161	35703	4.78	0.0E+00	AW592233.1	EST_HUMAN	h448a09.x1 Soares_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2835098 3'
9082	22161	35704	4.78	0.0E+00	AW592233.1	EST_HUMAN	h448a09.x1 Soares_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2835098 3'
9129	22208	35751	0.93	0.0E+00	AV714764.1	EST_HUMAN	AV714764 DCB Homo sapiens cDNA clone DCBAUA06 5'
9145	22224	35768	3.17	0.0E+00	AL040428.1	EST_HUMAN	DKFZp434C1814_s1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C1814 3'
9145	22224	35767	3.17	0.0E+00	AL040428.1	EST_HUMAN	DKFZp434C1814_s1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C1814 3'
9151	22229	35773	1.32	0.0E+00	AF133901.1	NT	Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes, partial cds
9153	22231	35776	2.12	0.0E+00	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
9161	22239		0.61	0.0E+00	BF058289.1	EST_HUMAN	7K238503.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3476892 3' similar to TR:O36448 O36448 S GAG :
9191	22269	35808	2.79	0.0E+00	11422867	NT	Homo sapiens tumor protein p73 (TP73), mRNA
9201	22279	35818	1.59	0.0E+00	K01241.1	NT	Human Ig rearranged H-chain epsilon-3 pseudogene, constant region
9209	22287	35828	5.28	0.0E+00	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
9209	22287	35829	5.28	0.0E+00	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
9214	22292	35835	1.84	0.0E+00	AV660739.1	EST_HUMAN	AV660739 GLC Homo sapiens cDNA clone GLCGK12 3'
9220	22298	35841	3.41	0.0E+00	7706638	NT	Homo sapiens polyomavirus (PKOL), mRNA
9225	22303	35846	0.6	0.0E+00	BE793326.1	EST_HUMAN	601588304F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3942593 5'
9246	22323	35867	4.22	0.0E+00	BES15402.1	EST_HUMAN	601141119F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3140740 5'
9246	22323	35868	4.22	0.0E+00	BES15402.1	EST_HUMAN	601141119F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3140740 5'
9256	22333	35883	0.6	0.0E+00	BE612721.1	EST_HUMAN	601452582F1 NIH_MGC 66 Homo sapiens cDNA clone IMAGE:3856100 5'
9256	22333	35884	0.6	0.0E+00	BE612721.1	EST_HUMAN	601452582F1 NIH_MGC 66 Homo sapiens cDNA clone IMAGE:3856100 5'
9259	22336		0.54	0.0E+00	M89988.1	NT	Human polymorphic loci in Xq28
9261	22338	35888	1.65	0.0E+00	X14768.1	NT	Human mRNA for GABA-A receptor, alpha 1 subunit
9279	22355	35905	0.53	0.0E+00	AU127098.1	EST_HUMAN	AU127098 NT2RP2 Homo sapiens cDNA clone NT2RP2000579 5'
9283	22356	35909	0.83	0.0E+00	A061395.1	EST_HUMAN	an28a04.x1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:1700094 3'
9288	22384	35913	1.96	0.0E+00	A1954607.1	EST_HUMAN	wq34a12.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2473150 3' similar to SW:MG83_HUMAN
9288	22389	35919	5.09	0.0E+00	8258595	NT	O15480 MELANOMA-ASSOCIATED ANTIGEN B3 :
9303	22379	35930	2.73	0.0E+00	AW958311.1	EST_HUMAN	Homo sapiens proteasome alpha 8 (PCDHAB), mRNA
9313	22399	35940	1.32	0.0E+00	9835487	NT	EST370361 IMAGE resequencing, MAGE Homo sapiens cDNA
9328	22404	35956	0.84	0.0E+00	AU142662.1	EST_HUMAN	Human endogenous retrovirus, complete genome
9344	22420	35974	1.04	0.0E+00	11436985	NT	AU142662 Y79AA1 Homo sapiens cDNA clone Y79AA1000678 5'
							Homo sapiens MAP-kinase activating death domain (MADD), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9345	22421		0.76	0.0E+00	BE410768.1	EST_HUMAN	601301670F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636163 5'
9359	22434	35983	1.32	0.0E+00	BF002024.1	EST_HUMAN	797H12.x1 NCL_CGAP_Q018 Homo sapiens cDNA clone IMAGE:3314471 3' similar to TR:Q8UH62
9373	22448	36009	1.62	0.0E+00	AB011150.1	NT	Q8UH62 HYPOTHETICAL 42.5 KD PROTEIN.:
9374	22449	36010	3.42	0.0E+00	BE794823.1	EST_HUMAN	Homo sapiens mRNA for KIAA0578 protein, partial cds
9376	22453	36015	0.47	0.0E+00	BE810292.1	EST_HUMAN	601586294F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943463 5'
9378	22453	36016	0.47	0.0E+00	BE810292.1	EST_HUMAN	RC3-PT0151-230600-011-c05 PT0151 Homo sapiens cDNA
9381	22456	36019	0.97	0.0E+00	AU136229.1	EST_HUMAN	RC3-PT0151-230600-011-c05 PT0151 Homo sapiens cDNA
9386	22461	36024	1.19	0.0E+00	BE883843.1	EST_HUMAN	AU136228 PLACE1 Homo sapiens cDNA clone PLACE1003804 5'
9386	22461	36025	1.19	0.0E+00	BE883843.1	EST_HUMAN	601510247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911988 5'
9403	22477	36040	0.57	0.0E+00	AB011166.1	NT	601510247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911988 5'
9407	22481	36044	1.43	0.0E+00	AA344601.1	EST_HUMAN	Homo sapiens mRNA for KIAA0594 protein, partial cds
9407	22481	36045	1.43	0.0E+00	AA344601.1	EST_HUMAN	EST150505 Gall bladder 1 Homo sapiens cDNA 5' end
9464	22521	36083	0.96	0.0E+00	AW573469.1	EST_HUMAN	EST150505 Gall bladder 1 Homo sapiens cDNA 5' end
9464	22521	36084	0.96	0.0E+00	AW573469.1	EST_HUMAN	ba54d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800367 5' similar to TR:O60276 O60276 KIAA0522 PROTEIN.:
9468	22554	36116	0.99	0.0E+00	BE207063.1	EST_HUMAN	ba54d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800367 5' similar to TR:O60276 O60275 KIAA0522 PROTEIN.:
9468	22554	36117	0.99	0.0E+00	BE207063.1	EST_HUMAN	ba0905.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus
9509	22776	36346	1.95	0.0E+00	BF348013.1	EST_HUMAN	ba0905.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus
9545	22810	36178	3.1	0.0E+00	BE12616.1	EST_HUMAN	ba0905.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus
9577	22719	36287	0.49	0.0E+00	BF034377.1	EST_HUMAN	ba0905.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus
9577	22719	36288	0.49	0.0E+00	BF034377.1	EST_HUMAN	ba0905.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus
9583	22725	36295	0.58	0.0E+00	AB06351.1	EST_HUMAN	RC-BT108-040399-032 BT108 Homo sapiens cDNA
9586	22728	36297	0.77	0.0E+00	5803068	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB5), mRNA
9586	22728	36298	0.77	0.0E+00	5803068	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB5), mRNA
9596	22851	36223	0.85	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434L0120 5'
9631	22886	36257	1.3	0.0E+00	AB088043.1	EST_HUMAN	OK60101.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1651249 3' similar to TR:Q14677 Q14677 KIAA0171 PROTEIN.:
9638	21081	34592	0.67	0.0E+00	BF309862.1	EST_HUMAN	601892245F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4138066 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9840	21083	34595	2.32	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9840	21083	34596	2.32	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9842	21085	34599	6.52	0.0E+00	A1280908.1	EST_HUMAN	qm09a06.lx1 NCI_CGAP_Lu6 Homo sapiens cDNA clone IMAGE:1881298 3' similar to SW:RL2B_HUMAN
9842	21085	34600	6.52	0.0E+00	A1280908.1	EST_HUMAN	qm09a06.lx1 NCI_CGAP_Lu6 Homo sapiens cDNA clone IMAGE:1881298 3' similar to SW:RL2B_HUMAN
9843	21086	34601	2.15	0.0E+00	AW953836.1	EST_HUMAN	P28316 60S RIBOSOMAL PROTEIN L23A ;
9870	22832	36201	3.95	0.0E+00	AF153468.1	NT	EST368028 MAGE resequences, MAGE Homo sapiens cDNA
9873	22835	36205	0.89	0.0E+00	BE985128.1	EST_HUMAN	Homo sapiens polycystic kidney disease 2-like protein (PKD2L) gene, exon 8
9873	22835	36206	0.89	0.0E+00	BE985128.1	EST_HUMAN	601510882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912166 5'
9883	22732		5.87	0.0E+00	BE255828.1	EST_HUMAN	601510882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912166 5'
9886	22735	36305	1.44	0.0E+00	BE781382.1	EST_HUMAN	601108942F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350722 5'
9886	22735	36306	1.44	0.0E+00	BE781382.1	EST_HUMAN	601108942F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350722 5'
9888	22737	36307	5.46	0.0E+00	AW163179.1	EST_HUMAN	601468828F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3870007 5'
9897	22748	36315	0.68	0.0E+00	D87676.1	NT	601468828F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3870007 5'
9709	22758	36329	3.41	0.0E+00	BE263191.1	EST_HUMAN	au86c04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783142 5' similar to gb-M36072
9727	22792	36364	4.49	0.0E+00	C08158.1	EST_HUMAN	60S RIBOSOMAL PROTEIN L7A (HUMAN);
9727	22792	36365	4.49	0.0E+00	C08158.1	EST_HUMAN	Homo sapiens DNA for amyloid precursor protein, complete cds
9729	22794	36366	3.38	0.0E+00	BE746215.1	EST_HUMAN	601145054F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160477 5'
9739	22804	36378	2.03	0.0E+00	11437282	NT	C08158 Human pancreatic islet Homo sapiens cDNA clone hbc5605
9739	22804	36379	2.03	0.0E+00	11437282	NT	C08158 Human pancreatic islet Homo sapiens cDNA clone hbc5605
9739	22804	36380	2.03	0.0E+00	11437282	NT	601678883F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3927548 5'
9759	22897	36265	1.91	0.0E+00	BE900549.1	EST_HUMAN	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9776	22816	36394	1.5	0.0E+00	AV701829.1	EST_HUMAN	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9788	22828	36405	2.55	0.0E+00	AF019084.1	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9821	22861	36442	1.13	0.0E+00	BE082977.1	EST_HUMAN	Homo sapiens keratin 2a (KRT2E) gene, complete cds
9841	22881	36464	1.72	0.0E+00	AW500293.1	EST_HUMAN	Homo sapiens keratin 2a (KRT2E) gene, complete cds
9841	22881	36465	1.72	0.0E+00	AW500293.1	EST_HUMAN	RC2-BT0842-190300-017-g01 BT0842 Homo sapiens cDNA
9850	22890	36470	1.87	0.0E+00	AF029308.1	NT	UI-HF-BND-akg-b-12-Q-UI-L1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
9850	22890	36471	1.87	0.0E+00	AF029308.1	NT	UI-HF-BND-akg-b-12-Q-UI-L1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
							Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and trypsinogen gene families
							Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and trypsinogen gene families

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9852	22892	36472	0.62	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
9852	22892	36473	0.62	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
9861	22801	36485	0.63	0.0E+00	W56828.1	EST_HUMAN	z116e11.1 Sources fetal heart NBIH19W Homo sapiens cDNA clone IMAGE:340844 5'
9861	22801	36486	0.63	0.0E+00	W56828.1	EST_HUMAN	z116e11.1 Sources fetal heart NBIH19W Homo sapiens cDNA clone IMAGE:340844 5'
9874	22914	36499	0.46	0.0E+00	AF208094.1	NT	Homo sapiens non-inhibitory killer-cell Ig-like receptor KIR (KIR2DS5) mRNA, complete cds
9876	22916	36500	1.04	0.0E+00	AB035356.1	NT	Homo sapiens mRNA for neuraminidase protein, complete cds
9878	22918		0.64	0.0E+00	A1124780.1	EST_HUMAN	am56a11.1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539548 3'
9891	22921	36505	3	0.0E+00	AW500528.1	EST_HUMAN	UI-HF-BN0-ek-o-07-0-UI.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077984 5'
9925	22965	36554	2.65	0.0E+00	AF009688.1	NT	Multiple sclerosis associated retrovirus polyprotein (p67) mRNA, partial cds
9953	22992	36585	2.69	0.0E+00	S78466.1	NT	AIIG=androgen-induced growth factor AIGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
9953	22992	36586	2.69	0.0E+00	S78466.1	NT	AIIG=androgen-induced growth factor AIGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
9956	22995	36591	2.72	0.0E+00	BE563320.1	EST_HUMAN	601334603F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3686880 5'
9976	23015	36608	1.26	0.0E+00	AW363135.1	EST_HUMAN	CM2-CT0311-301198-043-111 CT0311 Homo sapiens cDNA
9997	23035	36627	0.66	0.0E+00	11496432	NT	Homo sapiens multinin (NMN), mRNA
9998	23036	36628	0.62	0.0E+00	11424387	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (LILRB3), mRNA
10007	23045	36638	0.91	0.0E+00	BE206710.1	EST_HUMAN	b626c01.x1 NIH_MGC_5 Homo sapiens cDNA clone IMAGE:2884000 3'
10024	23062	36658	4.49	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
10024	23062	36659	4.49	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
10033	23071	36671	0.95	0.0E+00	AW500938.1	EST_HUMAN	UI-HF-BP0p-af-4-05-0-UI.1 NIH_MGC_31 Homo sapiens cDNA clone IMAGE:3072897 5'
10039	23077	36677	13.28	0.0E+00	BE740460.1	EST_HUMAN	601565558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3946383 5'
10039	23077	36678	13.28	0.0E+00	BE740460.1	EST_HUMAN	601565558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3946383 5'
10052	23080	36692	1.56	0.0E+00	7662067	NT	Homo sapiens KIAA0345 gene product (KIAA0345), mRNA
10069	23107	36710	1.54	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434L0120 5'
10074	23112	36716	0.57	0.0E+00	AL041084.2	EST_HUMAN	DKFZp434B2416.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434B2416 5'
10084	23122	36723	2.32	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
10085	23123	36724	2.16	0.0E+00	AF162308.1	NT	Homo sapiens protocadherin alpha 12 (PCDH-alpha12) mRNA, complete cds
10112	23150	36751	2.84	0.0E+00	AF009220.1	NT	Homo sapiens leukocyte immunoglobulin-like receptor-1 mRNA, complete cds
10112	23150	36752	2.84	0.0E+00	AF009220.1	NT	Homo sapiens leukocyte immunoglobulin-like receptor-1 mRNA, complete cds
10128	23168	36765	1.13	0.0E+00	BF092898.1	EST_HUMAN	MF4-TN0114-110900-101-e04 TN0114 Homo sapiens cDNA
10160	23197	36788	2.75	0.0E+00	BE280783.1	EST_HUMAN	601165227F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138758 5'
10169	23208	36798	6.57	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10169	23206	36800	6.57	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'
10178	23215	36806	0.87	0.0E+00	AW236269.1	EST_HUMAN	nt72001.1 NCL CGAP_GML1 Homo sapiens cDNA clone IMAGE:2688977 3' similar to gb:202162_cds1 L-
10179	23216	36807	0.84	0.0E+00	AA341305.1	EST_HUMAN	LACTATE DEHYDROGENASE M CHAIN (HUMAN);
10188	23225	36818	0.69	0.0E+00	11427235	NT	EST146740 Fetal kidney II Homo sapiens cDNA 5' and
10208	23244	36834	0.94	0.0E+00	AW964113.1	EST_HUMAN	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
10222	23258	36845	5.99	0.0E+00	AU143673.1	EST_HUMAN	EST376188 IMAGE resequences, MAGH Homo sapiens cDNA
10222	23268	36846	5.88	0.0E+00	AU143673.1	EST_HUMAN	AU143673 Y78AA1 Homo sapiens cDNA clone Y78AA1002307 5'
10225	23261	36849	3.31	0.0E+00	AU143673.1	EST_HUMAN	AU143673 Y78AA1 Homo sapiens cDNA clone Y78AA1002307 5'
10228	23263	36851	2.79	0.0E+00	AF072408.1	NT	Homo sapiens killer cell inhibitory receptor KIR2C gene, exons 2, 3, and 4
10228	23263	36852	2.76	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
10261	23286	36894	3.07	0.0E+00	AU136637.1	EST_HUMAN	Homo sapiens HEF like Protein (HEFL), mRNA
10261	23296	36895	3.07	0.0E+00	AU136637.1	EST_HUMAN	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
10277	23312	36909	2	0.0E+00	AJ295944.1	NT	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
10277	23312	36910	2	0.0E+00	AJ295944.1	NT	Homo sapiens partial RANBP7 gene for RANBP7/importin7 and partial ZNF143 gene
10282	23317	36917	0.73	0.0E+00	AV885712.1	EST_HUMAN	Homo sapiens partial RANBP7 gene for RANBP7/importin7 and partial ZNF143 gene
10282	23317	36918	0.73	0.0E+00	AV885712.1	EST_HUMAN	AV685712 GKX Homo sapiens cDNA clone GKCDXA07 5'
10288	23323	36925	0.72	0.0E+00	AF072408.1	NT	AV685712 GKX Homo sapiens cDNA clone GKCDXA07 5'
10290	23325	36928	2.42	0.0E+00	AA196387.1	EST_HUMAN	Homo sapiens killer cell inhibitory receptor KIR2C gene, exons 2, 3, and 4
10317	23352	36959	0.76	0.0E+00	AA131248.1	EST_HUMAN	zpe87h11.1 Stratiogene muscle 837209 Homo sapiens cDNA clone IMAGE:628197 5'
10317	23352	36960	0.76	0.0E+00	AA131248.1	EST_HUMAN	z31f01.1 Soares_pregnant_uterus_Nb4IPU Homo sapiens cDNA clone IMAGE:503545 5'
10359	23384	37005	1.61	0.0E+00	AF178308.1	NT	z31f01.1 Soares_pregnant_uterus_Nb4IPU Homo sapiens cDNA clone IMAGE:503545 5'
10404	23439	37046	0.99	0.0E+00	BE860658.1	EST_HUMAN	Homo sapiens KIF4 (KIF4) mRNA, complete cds
10417	23452	37057	5.34	0.0E+00	BE730772.1	EST_HUMAN	601491566F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3893667 5'
10417	23452	37058	5.34	0.0E+00	BE730772.1	EST_HUMAN	601570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3945403 5'
10422	23457	37062	0.8	0.0E+00	AU127403.1	EST_HUMAN	601570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3945403 5'
10432	23467	37073	0.89	0.0E+00	BE958511.1	EST_HUMAN	AU127403 NT2RP2 Homo sapiens cDNA clone NT2RP2001212 5'
10432	23467	37074	0.89	0.0E+00	BE958511.1	EST_HUMAN	601645134F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930177 5'
10450	23485	37084	0.48	0.0E+00	BE97467.1	EST_HUMAN	601645134F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930177 5'
10460	23485	37107	0.91	0.0E+00	AA311824.1	EST_HUMAN	601432317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917453 5'
10461	23496	37108	0.65	0.0E+00	4758827	NT	EST162353 Jurkat T-cells VI Homo sapiens cDNA 5' end
10473	23508	37121	0.84	0.0E+00	BE891113.1	EST_HUMAN	Homo sapiens neurodin III (NRXN3) mRNA
10475	23510	37123	0.77	0.0E+00	11500151	NT	601432228F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917598 5'
10486	23521	37130	1.56	0.0E+00	AB029200.1	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
							Homo sapiens mRNA for actin binding protein ABP620, complete cds

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10487	23522	37131	0.5	0.0E+00	BE304522.1	EST_HUMAN	601105459F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887818 5'
10487	23522	37132	0.6	0.0E+00	BE304522.1	EST_HUMAN	601105459F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887818 5'
10484	23529	37137	5.8	0.0E+00	AB006550.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10484	23529	37138	5.8	0.0E+00	AB006550.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10502	23537	37147	0.77	0.0E+00	AA704457.1	EST_HUMAN	Z19006.81 Soares_fetal_liver_spleen_TNF1L5_S1 Homo sapiens cDNA clone IMAGE:450707 3' similar to gb:M14123_cds1 RETROVIRUS-RELATED GAG POLYPROTEIN (HUMAN);
10504	23539	37148	1.08	0.0E+00	M22921.1	NT	Human beta 1,4-galactosyl-transferase mRNA, complete cds
10506	23541	37151	4.81	0.0E+00	BF340331.1	EST_HUMAN	602037045F1 NCI_CGAP_Bim64 Homo sapiens cDNA clone IMAGE:4184839 5'
10508	23541	37152	4.81	0.0E+00	BF340331.1	EST_HUMAN	602037045F1 NCI_CGAP_Bim64 Homo sapiens cDNA clone IMAGE:4184839 5'
10530	23585	37172	0.59	0.0E+00	BE897149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10530	23585	37173	0.59	0.0E+00	BE897149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10595	23630	37237	1.07	0.0E+00	AB81818.1	EST_HUMAN	wa36403.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR-Q61204 Q61204 NOTCH2-LIKE;
10595	23630	37238	1.07	0.0E+00	AB81818.1	EST_HUMAN	wa36403.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR-Q61204 Q61204 NOTCH2-LIKE;
10610	23644	37252	1.64	0.0E+00	T03078.1	EST_HUMAN	FB23A4 Fetal brain, Striatum Homo sapiens cDNA clone FB23A4 3' end
10638	23672	37282	0.67	0.0E+00	AU122429.1	EST_HUMAN	AU122429 MAMMA1 Homo sapiens cDNA clone MAMMA1002868 5'
10644	23678	37288	0.48	0.0E+00	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
10668	23702	37312	2.22	0.0E+00	BF436218.1	EST_HUMAN	nab45612.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3365271 3'
10669	23703		1.71	0.0E+00	AV654765.1	EST_HUMAN	AV654765 GLC Homo sapiens cDNA clone GLODZ007 3'
10680	23722	37328	3.08	0.0E+00	AW517060.1	EST_HUMAN	xi74301.x1 NCI_CGAP_Kid8 Homo sapiens cDNA clone IMAGE:2807401 3' similar to gb:M69066 MOESIN (HUMAN);
10693	23726	37332	2.88	0.0E+00	BE548213.1	EST_HUMAN	601078784F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3484703 5'
10709	23742	37348	0.82	0.0E+00	11438005	NT	Homo sapiens hypothetical protein DKFZp761P1010 (DKFZp761P1010), mRNA
10735	23768	37378	0.52	0.0E+00	X89833.1	NT	H. sapiens mRNA for NK receptor (183 Act1)
10736	23769	37379	3.35	0.0E+00	BE781742.1	EST_HUMAN	601467419F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870700 5'
10758	23791	37409	2.32	0.0E+00	BE082720.1	EST_HUMAN	RC2-81T0642-150200-012-003 BT0642 Homo sapiens cDNA
10758	23791	37410	2.32	0.0E+00	BE082720.1	EST_HUMAN	RC2-81T0642-150200-012-003 BT0642 Homo sapiens cDNA
10764	23787	37417	0.67	0.0E+00	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
10772	23805	37428	0.77	0.0E+00	AB56890.1	EST_HUMAN	tt54407.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2244612 3'
10778	23812	37435	9.15	0.0E+00	BE743215.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835188 5'
10779	23812	37436	9.15	0.0E+00	BE743215.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835188 5'
10784	23817	37439	0.63	0.0E+00	BE617655.1	EST_HUMAN	601441723T1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3845956 3'
10784	23817	37440	0.63	0.0E+00	BE617655.1	EST_HUMAN	601441723T1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3845956 3'

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10788	23819	37442	0.46	0.0E+00	AB006990.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10788	23819	37443	0.46	0.0E+00	AB006990.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10809	23842	37465	0.51	0.0E+00	H39805.1	EST_HUMAN	Yp01a10.11 Scores breast 3NIBBat Homo sapiens cDNA clone IMAGE:186138 5'
10835	23868	37491	0.54	0.0E+00	D87875.1	NT	Homo sapiens DNA for anyfold precursor protein, complete cds
10846	23879	37490	0.59	0.0E+00	BE392278.1	EST_HUMAN	601305167F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3926128 5'
10863	25868	37518	0.62	0.0E+00	AU126998.1	EST_HUMAN	AU125998 NT2RM4 Homo sapiens cDNA clone NT2RM4002536 5'
10872	23957	37586	1.84	0.0E+00	AV711075.1	EST_HUMAN	AV711075 Cu Homo sapiens cDNA clone CuAAKG05 5'
10872	23957	37587	1.84	0.0E+00	AV711075.1	EST_HUMAN	AV711075 Cu Homo sapiens cDNA clone CuAAKG05 5'
10874	23959	37595	2.55	0.0E+00	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
10882	23966	37595	5.5	0.0E+00	AW963593.1	EST_HUMAN	EST975638 IMAGE resequenced, MAGH Homo sapiens cDNA
10885	23979	37610	2.62	0.0E+00	11431124	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
10885	23979	37611	2.62	0.0E+00	11431124	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
10888	23982	37614	1.7	0.0E+00	AW057021.1	EST_HUMAN	W0109.x1 Scores NSF_F9_GW_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2563065 3' similar to TR:Q60566 Q60568 VDX;
10898	23989	37621	8.59	0.0E+00	BE243270.1	EST_HUMAN	TCAAAP3D0817 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project-TCAA Homo sapiens cDNA clone TCAAAP0917
10907	23990	37622	2.72	0.0E+00	AB52239.1	EST_HUMAN	wb28a12.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2309874 3' similar to contains element MSR1 MSR1 repetitive element;
10907	23990	37623	2.72	0.0E+00	AB52239.1	EST_HUMAN	wb28a12.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2309874 3' similar to contains element MSR1 MSR1 repetitive element;
10912	23995	37628	1.48	0.0E+00	BF306642.1	EST_HUMAN	601868704F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:412849 5'
10913	23996	37629	1.74	0.0E+00	BE872808.1	EST_HUMAN	601451502F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3855289 5'
10913	23996	37630	1.74	0.0E+00	BE872808.1	EST_HUMAN	601451502F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3855289 5'
10920	24003	37637	3.59	0.0E+00	11545911	NT	Homo sapiens NOD2 protein (NOD2), mRNA
10920	24003	37638	3.59	0.0E+00	11545911	NT	Homo sapiens NOD2 protein (NOD2), mRNA
10936	24018	37651	1.52	0.0E+00	AW404795.1	EST_HUMAN	U1HF-BL0-ecm-d-04-D-JL1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3058383 5'
10940	24022	37656	2.85	0.0E+00	11424829	NT	Homo sapiens hypothetical protein FLJ20078 (FLJ20078), mRNA
10941	24023	37657	8.39	0.0E+00	4504536	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
10941	24023	37658	8.39	0.0E+00	4504536	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
10942	24024	37659	2.68	0.0E+00	AJ891827.1	EST_HUMAN	w032b06.x1 Scores Dieckgrafe colon_NHCD Homo sapiens cDNA clone IMAGE:2521715 3'
10946	24028	37685	3.22	0.0E+00	BE982109.1	EST_HUMAN	601505204F2 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3806885 5'
10950	24032	37687	8.12	0.0E+00	BE891630.1	EST_HUMAN	601434522F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918636 5'
10952	24034	37688	1.55	0.0E+00	8923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
10952	24034	37689	1.55	0.0E+00	8923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10965	24046	37680	22.14	0.0E+00	BE903304.1	EST_HUMAN	601674332F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3857343 5'
10968	19087	32389	1.85	0.0E+00	AA195005.1	EST_HUMAN	z995b11.1 Stragena muscle 937209 Homo sapiens cDNA clone IMAGE:627933 5' similar to gb:X03740
10990	24089	37703	4.49	0.0E+00	BE763498.1	EST_HUMAN	MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
10998	24077	37710	2.4	0.0E+00	BE729708.1	EST_HUMAN	601593829F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943016 5'
10998	24077	37711	2.4	0.0E+00	BE729708.1	EST_HUMAN	601602884F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832575 5'
10999	24078	37712	11.68	0.0E+00	AV727382.1	EST_HUMAN	601562884F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832575 5'
10999	24078	37713	11.68	0.0E+00	AV727382.1	EST_HUMAN	AV727382 HTC Homo sapiens cDNA clone HTCAQH08 5'
11003	24082	37718	1.6	0.0E+00	R17132.1	EST_HUMAN	AV727382 HTC Homo sapiens cDNA clone HTCAQH08 5'
11003	24082	37719	1.6	0.0E+00	R17132.1	EST_HUMAN	y909a09.1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:31874 5'
11009	24088		2.62	0.0E+00	AW139414.1	EST_HUMAN	y909a09.1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:31874 5'
11014	24083	37732	11.81	0.0E+00	AW516055.1	EST_HUMAN	UI-H-B1-act-e-08-o-U1.s1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717674 3'
11020	24089	37737	4.44	0.0E+00	AU139741.1	EST_HUMAN	xy04g10.x1 NCL_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2852226 3' similar to gb:M60854 40S
11028	24105	37741	2.68	0.0E+00	AW503333.1	EST_HUMAN	RIBOSOMAL PROTEIN S16 (HUMAN);
11028	24105	37742	2.68	0.0E+00	AW503333.1	EST_HUMAN	AU135741 PLAGE1 Homo sapiens cDNA clone PLAGE1002784 5'
11028	24105	37743	2.56	0.0E+00	AW503333.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
11028	24107	37744	1.67	0.0E+00	Z34897.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
11029	24108	37745	2.76	0.0E+00	F13069.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
11037	24116	37750	2.35	0.0E+00	D10083.1	NT	H.sapiens mRNA for H1 histamine receptor
11054	24131	37787	1.71	0.0E+00	AW338084.1	EST_HUMAN	HSC3/C031 normalized Infant brain cDNA Homo sapiens cDNA clone c-3ic03
11055	24132	37788	3.76	0.0E+00	AW451230.1	EST_HUMAN	Homo sapiens RGH1 gene, retrovirus-like element
11055	24132	37789	3.75	0.0E+00	AW451230.1	EST_HUMAN	zw66f01.x1 NCL_CGAP_Pun1 Homo sapiens cDNA clone IMAGE:2832885 3' similar to gb:X17115 IG MJ
11058	13443		9.52	0.0E+00	4506632	NT	CHAIN C REGION (HUMAN);
11060	24136	37771	1.79	0.0E+00	AB014567.1	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
11073	24148	37787	1.92	0.0E+00	BE298449.1	EST_HUMAN	Homo sapiens mRNA for KIAA0667 protein, partial cds
11087	24151	37797	1.47	0.0E+00	AB011117.1	NT	601119248F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028219 5'
11082	24168	37803	1.39	0.0E+00	AA377505.1	EST_HUMAN	Homo sapiens mRNA for KIAA0645 protein, partial cds
11106	24178	37813	3.3	0.0E+00	BE782155.1	EST_HUMAN	ESTB0347 Synovial sarcoma Homo sapiens cDNA 5' end similar to LERK-2, placenta
11107	24179		76.9	0.0E+00	BF684081.1	EST_HUMAN	601582046F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3836539 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11108	24180	37814	1.45	0.0E+00	BE269288.1	EST_HUMAN	601186342F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3544256 5'
11110	24182	37816	7.93	0.0E+00	AU118386.1	EST_HUMAN	AU118386 HEMBA1 Homo sapiens cDNA clone HEMBA1003486 5'
11111	24183		1.81	0.0E+00	AW236289.1	EST_HUMAN	AW236289.1 NCI CGAP QML1 Homo sapiens cDNA clone IMAGE:2669977 3' similar to gbX02162_cdel L-
11116	24188	37820	6.71	0.0E+00	AU149809.1	EST_HUMAN	LACTATE DEHYDROGENASE M CHAIN (HUMAN)
11116	24188	37821	6.71	0.0E+00	AU149809.1	EST_HUMAN	q43c03.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1752772 3'
11117	24189	37822	2.63	0.0E+00	AW391837.1	EST_HUMAN	q43c03.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1752772 3'
11127	24199		11.83	0.0E+00	AU116908.1	EST_HUMAN	QV4-ST0234-121199-032-b08 ST0234 Homo sapiens cDNA
11130	24202	37827	9.87	0.0E+00	AU116908.1	EST_HUMAN	AU116908 HEMBA1 Homo sapiens cDNA clone HEMBA1000255 5'
					11424728	NT	Homo sapiens insulin receptor (INSR), mRNA
11132	24204	37828	2.14	0.0E+00	A1367350.1	EST_HUMAN	q65c12.x1 NCI CGAP_U12 Homo sapiens cDNA clone IMAGE:1989334 3' similar to TR:Q14673 Q14673
							KIAA0164 PROTEIN.
11132	24204	37829	2.14	0.0E+00	A1367350.1	EST_HUMAN	q65c12.x1 NCI CGAP_U12 Homo sapiens cDNA clone IMAGE:1989334 3' similar to TR:Q14673 Q14673
11137	24209	37835	1.63	0.0E+00	BF340308.1	EST_HUMAN	KIAA0164 PROTEIN.
11139	24211	37837	13.91	0.0E+00	BE261209.1	EST_HUMAN	602037014F1 NCI CGAP Bm64 Homo sapiens cDNA clone IMAGE:4184979 5'
11144	24216	37843	2.19	0.0E+00	AB028040.1	NT	601148357F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3103310 5'
11147	24219	37848	1.51	0.0E+00	AB007832.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
11151	24222	37850	3.89	0.0E+00	U60328.1	NT	Homo sapiens mRNA for KIAA0463 protein, partial cds
11155	24226	37855	2.43	0.0E+00	BE773036.1	EST_HUMAN	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 15-17
11155	24226	37856	2.43	0.0E+00	BE773036.1	EST_HUMAN	RC1-FT0134-170700-012-07 FT0134 Homo sapiens cDNA
							RC1-FT0134-170700-012-07 FT0134 Homo sapiens cDNA
11177	24246	37879	51.22	0.0E+00	AA740782.1	EST_HUMAN	q632607.s1 NCI CGAP_K05 Homo sapiens cDNA clone IMAGE:1325412 3' similar to cortals element
							MSR1 repetitive element.
11186	24255	37890	2.81	0.0E+00	AF252303.1	NT	Homo sapiens signalling lymphocyte activation molecule (SLAM) gene, exon 2
11189	24268	37903	1.71	0.0E+00	BE268478.1	EST_HUMAN	601192748F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3536867 5'
11199	24268	37904	1.71	0.0E+00	BE268478.1	EST_HUMAN	601192748F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3536867 5'
11201	24270	37906	4.9	0.0E+00	C05089.1	EST_HUMAN	C05089 Human heart cDNA (YNAKamura) Homo sapiens cDNA clone 3NH04817
11208	24277	37914	2.1	0.0E+00	AA746375.1	EST_HUMAN	q65c191.J1 NCI CGAP_Q051 Homo sapiens cDNA clone IMAGE:1309009 5'
11208	24277	37915	2.1	0.0E+00	AA746375.1	EST_HUMAN	q65c191.J1 NCI CGAP_Q051 Homo sapiens cDNA clone IMAGE:1309009 5'
11218	24287	37926	2.69	0.0E+00	M78448.1	EST_HUMAN	EST100596 Fetal brain, Stratiogene (catf836206) Homo sapiens cDNA clone HFBOC28
11218	24287	37927	2.69	0.0E+00	M78448.1	EST_HUMAN	EST100596 Fetal brain, Stratiogene (catf836206) Homo sapiens cDNA clone HFBOC28
11221	24290	37930	1.76	0.0E+00	BF353625.1	EST_HUMAN	QV2-HT0698-020600-255-007 HT0698 Homo sapiens cDNA
11222	24291	37931	6.6	0.0E+00	AL157608.1	EST_HUMAN	QV2-HT0698-020600-255-007 HT0698 Homo sapiens cDNA
11234	24303	37940	1.86	0.0E+00	BE562822.1	EST_HUMAN	DKFZp761J2116 JT 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761J2116 5'
11236	24305	37942	6.05	0.0E+00	AU116988.1	EST_HUMAN	601336530F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3660380 5'
							AU116988 HEMBA1 Homo sapiens cDNA clone HEMBA1000424 5'

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11250	24319	37859	1.75	0.0E+00	AV693658.1	EST_HUMAN	AV693656 GK2 Homo sapiens cDNA clone GKCCNC03 5'
11280	24329	37869	2.97	0.0E+00	BF386553.1	EST_HUMAN	IL3-NT0104-200500-143-A07 NT0104 Homo sapiens cDNA
11288	24354	37894	2.4	0.0E+00	BE182360.1	EST_HUMAN	PMO-HT0645-060500-002-E05 HT0645 Homo sapiens cDNA
11288	24354	37895	2.4	0.0E+00	BE182360.1	EST_HUMAN	PMO-HT0645-060500-002-E05 HT0645 Homo sapiens cDNA
11280	24356		1.51	0.0E+00	AV701152.1	EST_HUMAN	AV701152 ADA Homo sapiens cDNA clone ADAAD00 5'
11305	24370	38011	3.02	0.0E+00	BE386423.1	EST_HUMAN	60143002F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3024142 5'
11311	24375	38018	1.83	0.0E+00	AW600307.1	EST_HUMAN	U1HF-BN0-ekg-1-02-0-U1-1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077010 5'
11311	24375	38020	1.83	0.0E+00	AW500307.1	EST_HUMAN	U1HF-BN0-ekg-1-02-0-U1-1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077010 5'
							POLYADENYLATE-BINDING PROTEIN (HUMAN); gp:X65553 M.musculus mRNA for poly(A) binding protein (MOLISE);
11314	24378	38023	2.49	0.0E+00	BE018233.1	EST_HUMAN	MR4-ST0118-041089-010-A12 ST0118 Homo sapiens cDNA
11345	25869	38058	1.45	0.0E+00	AW387766.1	EST_HUMAN	MR4-ST0118-041089-010-A12 ST0118 Homo sapiens cDNA
11345	25869	38059	1.45	0.0E+00	AW387766.1	EST_HUMAN	MR4-ST0118-041089-010-A12 ST0118 Homo sapiens cDNA
11353	24415	38070	3.23	0.0E+00	BE897853.1	EST_HUMAN	601440446F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3825403 5'
11355	24417	38073	2.24	0.0E+00	AW459545.1	EST_HUMAN	ao86g11.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'
11355	24417	38074	2.24	0.0E+00	AW459545.1	EST_HUMAN	ao86g11.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'
11369	24430	38087	1.89	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120_J1 434 (synonym: hbs3) Homo sapiens cDNA clone DKFZp434L0120 5'
							ou61d04.x1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1632295 3' similar to SW_JRP1_HUMAN
11390	24451	38112	1.37	0.0E+00	AW73917.1	EST_HUMAN	Q07854 LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 1 PRECURSOR;
							ou61d04.x1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1632295 3' similar to SW_JRP1_HUMAN
11390	24451	38113	1.37	0.0E+00	AW73917.1	EST_HUMAN	Q07854 LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 1 PRECURSOR;
							ou61d04.x1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1632295 3' similar to SW_JRP1_HUMAN
11390	24451	38114	1.37	0.0E+00	AW73917.1	EST_HUMAN	Q07854 LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 1 PRECURSOR;
11404	24465	38130	3.8	0.0E+00	4758827	NT	Homo sapiens neuraxin III (NRXN3) mRNA
11405	24468	38131	24.41	0.0E+00	BF206551.1	EST_HUMAN	601870902F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4101433 5'
11411	24472	38137	11.85	0.0E+00	AW207734.1	EST_HUMAN	U1H-B12-aga-h-01-0-U1s1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2724312 3'
11416	24477	38141	3.93	0.0E+00	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11416	24477	38142	3.93	0.0E+00	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
							ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR-O76022 O76022 E1B-55KDA-ASSOCIATED PROTEIN.;
11418	24479	38144	2.63	0.0E+00	BE208846.1	EST_HUMAN	

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11418	24479	38145	2.63	0.0E+00	BE206846.1	EST_HUMAN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B-55KDA-ASSOCIATED PROTEIN.;
11429	24490	38165	2.37	0.0E+00	11528409	NT	Homo sapiens KIAA0426 gene product (KIAA0426), mRNA
11438	24499	38166	1.68	0.0E+00	A1075915.1	EST_HUMAN	Q446p07.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1640412 3' similar to TR:Q14507
11445	24503	38172	1.73	0.0E+00	11024711	NT	Q14507 EPIDIDYMISS-SPECIFIC GENE PRODUCT, ALPHA.;
11448	24509	38178	1.98	0.0E+00	BF033687.1	EST_HUMAN	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
11449	24510	34189	1.94	0.0E+00	L32832.1	NT	QV0-JM0091-120900-385-b72 UM0091 Homo sapiens cDNA
11452	24512	38178	4.61	0.0E+00	BE148076.1	EST_HUMAN	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
11452	24512	38178	4.61	0.0E+00	BE148076.1	EST_HUMAN	RC3-HT0230-040500-110-H04 HT0230 Homo sapiens cDNA
11475	24534	38204	1.66	0.0E+00	AW073469.1	EST_HUMAN	RC3-HT0230-040500-110-H04 HT0230 Homo sapiens cDNA
11475	24534	38205	1.66	0.0E+00	AW073469.1	EST_HUMAN	ba54d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800367 5' similar to TR:O60275 O60275
11490	24549	38223	4.84	0.0E+00	BF507876.1	EST_HUMAN	KIAA0522 PROTEIN;
11490	24549	38224	4.84	0.0E+00	BF507876.1	EST_HUMAN	ba54d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800367 5' similar to TR:O60275 O60275
11496	24554	38228	4.65	0.0E+00	AU135170.1	EST_HUMAN	KIAA0522 PROTEIN;
11501	24559	38234	2.07	0.0E+00	BF576138.1	EST_HUMAN	UHL-B14-ack-b-10-Q-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085026 3'
11501	24559	38235	2.07	0.0E+00	BF576138.1	EST_HUMAN	UHL-B14-ack-b-10-Q-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085026 3'
11503	24561	38238	4.06	0.0E+00	BE876401.1	EST_HUMAN	AU135170 PLACE1 Homo sapiens cDNA clone PLACE1001381 5'
11503	24581	38239	4.06	0.0E+00	BE876401.1	EST_HUMAN	602132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271630 5'
11511	24569	38249	1.61	0.0E+00	D67062.1	NT	602132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271630 5'
11516	24573		3.87	0.0E+00	BF240536.1	EST_HUMAN	602132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:3880207 5'
11531	24587	38262	1.81	0.0E+00	AB037737.1	NT	601496828F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3880207 5'
11531	24587	38263	1.81	0.0E+00	AB037737.1	NT	601496828F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3880207 5'
11535	24591	38266	3.09	0.0E+00		NT	Human mRNA for KIAA0241 gene, partial cds
11535	24591	38267	3.09	0.0E+00	11430868	NT	601875630F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4099710 5'
11535	24591	38267	3.09	0.0E+00	11430868	NT	Homo sapiens mRNA for KIAA1316 protein, partial cds
11553	24608	38287	6.13	0.0E+00	4503544	NT	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA
11553	24608	38287	6.13	0.0E+00	4503544	NT	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA
11560	24615	38294	2.06	0.0E+00	BF576267.1	EST_HUMAN	Homo sapiens eukaryotic translation initiation factor 6A (EIF6A) mRNA
11562	24617	38297	3.53	0.0E+00	AW328173.1	EST_HUMAN	602134132F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4289502 5'
11567	24622		42.5	0.0E+00	M65083.1	NT	dr04g05.x1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:2847177 5'
11571	24628	38305	1.75	0.0E+00	A1680988.1	EST_HUMAN	Human gamma actin-like pseudogene, complete cds
11574	24629	38307	3.37	0.0E+00	BF306896.1	EST_HUMAN	wf20e11.x1 Soares_Diocyteafae_codon_NHUC Homo sapiens cDNA clone IMAGE:2351180 3' similar to gb:U87789 IG GAMMA-1 CHAIN C REGION (HUMAN);
11574	24629	38307	3.37	0.0E+00	BF306896.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11574	24629	38308	3.37	0.0E+00	BF306986.1	EST_HUMAN	601688823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4128948 5'
11581	24635	38315	47.2	0.0E+00	BF382482.1	EST_HUMAN	QV2-NN0054-230800-333-604 NN0054 Homo sapiens cDNA
11601	24654	38338	2.32	0.0E+00	U36284.1	NT	Human beta-prime-actin (BAM22) gene, exon 18
11601	24654	38339	2.32	0.0E+00	U36284.1	NT	Human beta-prime-actin (BAM22) gene, exon 18
11606	24659		4.33	0.0E+00	BE887051.1	EST_HUMAN	601439803F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924577 5'
11607	24660		2.37	0.0E+00	4503786	NT	Homo sapiens fyn-related kinase (FRK) mRNA
11621	24672	38361	2.34	0.0E+00	B923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11623	24674		2.07	0.0E+00	BF207682.1	EST_HUMAN	601881947F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:4081716 5'
11636	24716	38407	4.53	0.0E+00	BE206946.1	EST_HUMAN	60144007.Y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B-
11636	24716	38408	4.53	0.0E+00	BE206946.1	EST_HUMAN	55KDA-ASSOCIATED PROTEIN. ;
11636	24718	38410	3.69	0.0E+00	AW763028.1	EST_HUMAN	60144007.Y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B-
11643	24723		3.01	0.0E+00	AA558707.1	EST_HUMAN	55KDA-ASSOCIATED PROTEIN. ;
11644	18590	31562	2.58	0.0E+00	A1934954.1	EST_HUMAN	QV0-CT0225-101289-071-066 CT0225 Homo sapiens cDNA
11645	24724	38416	7.51	0.0E+00	AW327895.1	EST_HUMAN	60144007.Y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:1043342 similar to gb:M85178 ALPHA-
11664	25870	38435	1.78	0.0E+00	AW292776.1	EST_HUMAN	ACTININ 1, CYTOSKELETAL ISOFORM (HUMAN);
11671	23889	37522	1.93	0.0E+00	4758827	NT	wp06g08.x1 NCL_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2464094 3'
11677	24676	38367	1.35	0.0E+00	BE254038.1	EST_HUMAN	dp02b08.x1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:2846919 5'
11680	24678	38369	1.78	0.0E+00	BE965909.2	EST_HUMAN	UI-H-BW0-af-d-07-0-ULs1 NCL_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:2729509 3'
11680	24679	38370	1.79	0.0E+00	BE965909.2	EST_HUMAN	Homo sapiens neuratin III (NRXN3) mRNA
11681	24680	38371	3.81	0.0E+00	BE185658.1	EST_HUMAN	601113903F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354600 5'
11682	24681		1.39	0.0E+00	BF513980.1	EST_HUMAN	601658088R1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895916 3'
11686	24683	38384	7.19	0.0E+00	ALD46540.1	EST_HUMAN	601658088R1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895916 3'
11686	24683	38385	7.19	0.0E+00	ALD46540.1	EST_HUMAN	IL5-HT0731-020500-077-05 HT0731 Homo sapiens cDNA
11706	24703	38395	10.19	0.0E+00	A1923118.1	EST_HUMAN	UI-H-BW1-amy-e-05-0-ULs1 NCL_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071121 3'
11708	24748	38440	4.47	0.0E+00	AA760913.1	EST_HUMAN	DKFZp434G178_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434G178 5'
11708	24748	38441	4.47	0.0E+00	AA760913.1	EST_HUMAN	DKFZp434G178_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434G178 5'
11713	24753	38447	2.21	0.0E+00	BE910546.1	EST_HUMAN	wn85g03.x1 NCL_CGAP_U1 Homo sapiens cDNA clone IMAGE:2452468 5' similar to gb:S37431 LAMININ RECEPTOR (HUMAN);
							ntz1c07.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13686
							ntz1c07.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13686
							Q13686 ALKB HOMOLOG PROTEIN. ;
							Q13686 ALKB HOMOLOG PROTEIN. ;
							601501080F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902826 5'

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11723	23909	37533	11.84	0.0E+00	BE676947.1	EST_HUMAN	72712x1 NCL_CGAP_C11.1 Homo sapiens cDNA clone IMAGE:3295819 3' similar to TR:000409 O00409 CHECKPOINT SUPPRESSOR 1.1
11725	23911	37535	1.47	0.0E+00	AK683358.1	EST_HUMAN	b68409.x1 NCL_CGAP_U1 Homo sapiens cDNA clone IMAGE:2274521 3' similar to gb:M55542
11727	23913	37537	3.13	0.0E+00	BE615668.1	EST_HUMAN	INTERFERON-INDUCED GUANYLATE-BINDING PROTEIN 1 (HUMAN);
11727	23913	37538	3.13	0.0E+00	BE615668.1	EST_HUMAN	601276335F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3611144 5'
11734	23920	37545	1.59	0.0E+00	AV757420.1	EST_HUMAN	601276335F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3611144 5'
11739	23925	37550	7.33	0.0E+00	AL037746.1	EST_HUMAN	AV757420 BM Homo sapiens cDNA clone BMFAGH03 5'
11740	23926	37551	4.2	0.0E+00	U62769.1	NT	DKFZp564C187.1 664 (synonym: hbr2) Homo sapiens cDNA clone DKFZp564C187 5'
11745	23931	37557	1.33	0.0E+00	BE883388.1	EST_HUMAN	Human oxytocinase variant 2 mRNA, complete cds
11766	24756	38454	1.75	0.0E+00	Y18890.1	NT	601509139F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3910833 5'
11769	24761	38455	3.69	0.0E+00	L39891.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
11769	24761	38456	3.59	0.0E+00	L39891.1	NT	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
11764	24774	38474	2.03	0.0E+00	AU138211.1	EST_HUMAN	Homo sapiens polyoma kidney disease-associated protein (PKD1) gene, complete cds
11767	24787	38485	8.43	0.0E+00	BE622317.1	EST_HUMAN	AU138211 PLACE1 Homo sapiens cDNA clone PLACE1008077 5'
11833	24822	38512	17.72	0.0E+00	BET48899.1	EST_HUMAN	601441096F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916270 5'
11833	24822	38513	17.72	0.0E+00	BET48899.1	EST_HUMAN	601672188T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11845	24834	38527	4.59	0.0E+00	AU141882.1	EST_HUMAN	601572188T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11845	24834	38528	4.98	0.0E+00	AU141882.1	EST_HUMAN	AU141882 THYROT1 Homo sapiens cDNA clone THYRO1001398 5'
11848	24837	38531	2.7	0.0E+00	AW008022.1	EST_HUMAN	AU141882 THYROT1 Homo sapiens cDNA clone THYRO1001398 5'
11853	25871	38537	2.73	0.0E+00	BF002333.1	EST_HUMAN	wz91h01.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2568225 3' similar to WP:F59H10.2
11854	24852	38548	1.32	0.0E+00	C06284.1	EST_HUMAN	CE11040 ZINC FINGER, C2H2 TYPE 1
11858	24856		1.68	0.0E+00	BET27811.1	EST_HUMAN	7622b10.x1 NCL_CGAP_Cor18 Homo sapiens cDNA clone IMAGE:3316899 3' similar to TR:Q13458 Q13458
11872	24860	38555	2.36	0.0E+00	AL472010.1	EST_HUMAN	TRIO.1
11878	24866	38563	2.84	0.0E+00	AW387776.1	EST_HUMAN	C06284 Human pancreatic islet Homo sapiens cDNA similar to insulin receptor
11878	24866	38564	2.84	0.0E+00	AW387776.1	EST_HUMAN	601564180F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3833730 5'
11888	24877		1.8	0.0E+00	AW563777.1	EST_HUMAN	j80a10.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2147802 3' similar to
11901	24889	38589	3.67	0.0E+00		NT	gb:M31661 PROLACTIN RECEPTOR TYPE 2 PRECURSOR (HUMAN);
11901	24889	38590	3.67	0.0E+00	11435244	NT	MR4-ST0118-261099-012-003 ST0118 Homo sapiens cDNA
11907	24894	38596	4.38	0.0E+00	U36253.1	NT	MR4-ST0118-261099-012-003 ST0118 Homo sapiens cDNA
11911	24896	38600	26.74	0.0E+00	BE378254.1	EST_HUMAN	MR3-SN0010-310300-107-H03 SN0010 Homo sapiens cDNA
							Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
							Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
							Human beta-prime-adaptin (BAM22) gene, exon 5
							601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11911	24888	38601	26.74	0.0E+00	BE379254.1	EST_HUMAN	601237681F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609823 5'
11917	24903	38606	4.87	0.0E+00	AW500056.1	EST_HUMAN	UJ-HF-BNC-ak-b-03-Q-UJ-1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077332 5'
11932	24918	38621	2.05	0.0E+00	BE794758.1	EST_HUMAN	601580588F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944708 5'
11934	24920	38622	65.18	0.0E+00	BE579633.1	EST_HUMAN	601491821F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3894220 5'
11935	24921	38623	1.6	0.0E+00	M80876.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
11941	24927	38629	1.38	0.0E+00	47598827	NT	Homo sapiens neuritin III (NRXN3) mRNA
11941	24927	38630	1.38	0.0E+00	47598827	NT	Homo sapiens neuritin III (NRXN3) mRNA
11946	24932	38635	1.89	0.0E+00	AF053543.1	NT	Homo sapiens glutathione transferase zeta 1 (GSTZ1) gene, exons 6 and 7
11953	24938	38642	7.28	0.0E+00	BE409983.1	EST_HUMAN	601289403F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3628544 5'
11954	24940	38643	2.22	0.0E+00	BE148660.1	EST_HUMAN	MRO-HT0241-150500-011-102 HT0241 Homo sapiens cDNA
11955	24941	38644	2.89	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11955	24941	38645	2.89	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11958	18785	31831	1.48	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
11958	18785	31832	1.48	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
11958	24943	38647	11.38	0.0E+00	BF681641.1	EST_HUMAN	602155722F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4298725 5'
11958	24943	38648	11.38	0.0E+00	BF681641.1	EST_HUMAN	602155722F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4298725 5'
11954	24949	38655	1.79	0.0E+00	AU132940.1	EST_HUMAN	AU132940 NT2RP4 Homo sapiens cDNA clone NT2RP4000829 5'
11967	24952	38657	4.99	0.0E+00	BE603372.1	EST_HUMAN	601676357F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:39558935 5'
11983	24968	38671	1.56	0.0E+00	BF312562.1	EST_HUMAN	601897624F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4127069 5'
11983	24968	38672	1.56	0.0E+00	BF312562.1	EST_HUMAN	601897624F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4127069 5'
11988	24971	38675	3.4	0.0E+00	X31735.1	NT	Human lambride-immunoglobulin constant region complex (germline)
11988	24971	38676	3.4	0.0E+00	X31735.1	NT	Human lambride-immunoglobulin constant region complex (germline)
11988	24983		1.96	0.0E+00	BE508402.1	EST_HUMAN	601498553F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3900398 5'
12013	24997	38700	1.46	0.0E+00	8635487	NT	Human endogenous retrovirus, complete genome
12028	25872		8.57	0.0E+00	BF308120.1	EST_HUMAN	601890534F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131415 5'
12028	25012	38713	2.37	0.0E+00	BE688861.1	EST_HUMAN	RC4-NN0025-120600-016-b07 NN0025 Homo sapiens cDNA
12028	25012	38714	2.37	0.0E+00	BE688861.1	EST_HUMAN	RC4-NN0025-120600-016-b07 NN0025 Homo sapiens cDNA
12032	25015	38717	60.98	0.0E+00	BE291715.1	EST_HUMAN	601177407F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3632868 5'
12046	25027	38733	1.42	0.0E+00	BE744911.1	EST_HUMAN	601576525F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3637222 5'
12046	25027	38734	1.42	0.0E+00	BE744911.1	EST_HUMAN	601576525F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3637222 5'
12054	25035	38741	2.02	0.0E+00	BE257612.1	EST_HUMAN	601113008F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3353378 5'
12054	25035	38742	2.02	0.0E+00	BE257612.1	EST_HUMAN	601113008F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3353378 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12084	25084	38770	2.85	0.0E+00	BE54535.1	EST_HUMAN	601070391F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3456407 5'
12087	25087	38773	1.34	0.0E+00	AA399001.1	EST_HUMAN	283601 J1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:720812 5' similar to SW:PMT1_SCHPO
12088	25088	38774	1.55	0.0E+00	AU117874.1	EST_HUMAN	P40989 DNA METHYLTRANSFERASE PMT1;
12088	25088	38775	1.55	0.0E+00	AU117874.1	EST_HUMAN	AU117874 HEMBA1 Homo sapiens cDNA clone HEMBA1002612 5'
12091	25071	38778	1.72	0.0E+00	BE780483.1	EST_HUMAN	AU117874 HEMBA1 Homo sapiens cDNA clone HEMBA1002612 5'
12108	25088	38792	2.15	0.0E+00	AW269690.1	EST_HUMAN	601488712F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3871899 5'
12118	25098	38803	1.99	0.0E+00	AU132394.1	EST_HUMAN	3x46N03.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2816213 3' similar to gb:L11706.cds1 HORMONE SENSITIVE LIPASE (HUMAN);
12131	25111	38815	1.35	0.0E+00	BE292840.1	EST_HUMAN	AU132394 NT2RP3 Homo sapiens cDNA clone NT2RP3004339 5'
12147	26185	31540	9.34	0.0E+00	BE312542.1	EST_HUMAN	601105652F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2868325 5'
12160	26005		9.02	0.0E+00	AL163246.2	NT	601150023F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503020 5'
12162	28013		5.49	0.0E+00	AI909993.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
12172	25134		3.73	0.0E+00	AB011399.1	NT	qet17b12.x1 Soares fetal_lung_NHL19W Homo sapiens cDNA clone IMAGE:1739231 3'
12182	25149		6.87	0.0E+00	AL163246.2	NT	Homo sapiens gene for AF-8, complete cds Homo sapiens chromosome 21 segment HS21C046
12194	25151		1.35	0.0E+00	AB016195.1	NT	Homo sapiens ELK1 pseudogene (ELK2) and immunoglobulin heavy chain gamma pseudogene (IGHGP)
12201	26166		3.2	0.0E+00	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIA0330), mRNA
12220	26170		4.95	0.0E+00	5802973	NT	Homo sapiens antioxidant protein 1 (AOP1), nuclear gene encoding mitochondrial protein, mRNA
12254	25973	31767	1.47	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12287	25983		3.47	0.0E+00	ALD41831.1	EST_HUMAN	DKFZp434K0819.J1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434K0819 5'
12295	26146		3.39	0.0E+00	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
12304	25222		4.77	0.0E+00	ALD46544.1	EST_HUMAN	DKFZp434G218.J1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434G218 5'
12317	26017		2.92	0.0E+00	AI903497.1	EST_HUMAN	IL-BT030-271088-001 BT030 Homo sapiens cDNA Jy40e08.s1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:245222 3' similar to SW:POL_BAEVM P10272 POL POLYPROTEIN;
12356	26172		1.98	0.0E+00	N54484.1	EST_HUMAN	Homo sapiens adenylosuccinate lyase gene, complete cds
12371	26285		4.08	0.0E+00	AF106856.1	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12374	14042	27108	5.36	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12374	14042	27107	5.36	0.0E+00	4607600	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12383	26021		3.07	0.0E+00	10092397	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 (NFATC2), mRNA
12415	13754		4.88	0.0E+00	AF003528.1	NT	Homo sapiens X-linked ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12460	25781	31937	3.95	0.0E+00	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12510	25950	31765	1.64	0.0E+00	AW590082.1	EST_HUMAN	hg31606.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2947234 3' similar to contains Alu repetitive element; contains element MER22 repetitive element;
12542	25982		1.34	0.0E+00	L20493.1	NT	Human gamma-glutamyl transpeptidase mRNA, complete cds
12573	26015		2.73	0.0E+00	AF068757.1	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
12618	25416		4.61	0.0E+00	6635487	NT	Human endogenous retrovirus, complete genome
12638	25428		1.19	0.0E+00	AV720678.1	EST_HUMAN	AV720678 GLC Homo sapiens cDNA clone GLCEPG08 5'
12660	26008		3.51	0.0E+00	AI204914.1	EST_HUMAN	an05f04.x1 Strabagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1694759 3'
12694	25462		1.33	0.0E+00	AB040464.1	EST_HUMAN	QV-BT065-020399-103 BT065 Homo sapiens cDNA
12702	26006		2.28	0.0E+00	BE439792.1	EST_HUMAN	HTM1-854F HTM1 Homo sapiens cDNA
12714	15187	28287	1.39	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12714	15187	28288	1.39	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12739	25490	32027	1.21	0.0E+00	AF096365.1	NT	Homo sapiens caveolin-3 (CAV3) mRNA, complete cds
12761	14969	27960	3.26	0.0E+00	H30132.1	EST_HUMAN	yc58e08.t1 Soares breast 3Ndb18st Homo sapiens cDNA clone IMAGE:182246 5' similar to gb-M64089
12761	14969	27960	3.26	0.0E+00	H30132.1	EST_HUMAN	GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
12765	13978	27031	1.6	0.0E+00	AB011399.1	NT	GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
12768	25509		33.13	0.0E+00	D50659.1	NT	Homo sapiens gene for AF-4, complete cds
12771	25514	31987	5.44	0.0E+00	11418189	NT	Human gamma-cytoplasmic actin (ACTGP9) pseudogene
12771	25514	31988	5.44	0.0E+00	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12778	25518		7.88	0.0E+00	AB026898.1	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12788	15284	28420	1.7	0.0E+00	4759489	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
12837	25557		2.11	0.0E+00	AW664999.1	EST_HUMAN	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
12847	25563	31988	1.43	0.0E+00	11430460	NT	h86e08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2970154 3'
12892	14409	27471	1.74	0.0E+00	8922593	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12927	16558	25673	3.11	0.0E+00	4885312	NT	Homo sapiens hypothetical protein FLJ10697 (FLJ10697), mRNA
12935	18494	31532	2.3	0.0E+00	6809918	NT	Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA
12936	25917		1.68	0.0E+00	AB026900.1	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12961	25639	31983	1.82	0.0E+00	9598724	NT	Homo sapiens CST gene for cerebroside sulfolipidase, exon 1, 2, 3, 4, 5
13010	26197		2.93	0.0E+00	AL163246.2	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA
13017	13828	28851	2.48	0.0E+00	6809918	NT	Homo sapiens chromosome 21 segment HS21C046
13113	25726	31943	1.17	0.0E+00	11417862	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
							Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
13116	25728		1.4	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P20M, complete cds
13119	25731		3.11	0.0E+00	7857020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
13140	25740		5.96	0.0E+00	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
13151	26207		1.16	0.0E+00	AW505176.1	EST HUMAN	U1-HF-BND-ctg-g-08-0-JUL1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3081399 5'
13190	26774		1.51	0.0E+00	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
13209	16135	29151	1.37	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
13209	16135	29152	1.37	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
13215	14345	27402	1.29	0.0E+00	6866844	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA

CLAIMS

1. A spatially-addressable set of single exon nucleic acid probes for measuring gene expression in a sample derived
5 from human placenta comprising a plurality single exon nucleic probes, said probes comprising any one of the nucleotide sequences set out in SEQ ID NOS: 1 - 13,232 or a complementary sequence, or a portion of such a sequence.
- 10 2. A spatially-addressable set of single exon nucleic acid probes as claimed in claim 1 wherein each of said plurality of probes is separately and addressably amplifiable.
3. A spatially-addressable set of single exon nucleic acid
15 probes as claimed in claim 1 wherein each of said plurality of probes is separately and addressably isolatable from said plurality.
4. A spatially-addressable set of single exon nucleic acid
20 probes as claimed in any of claims 1 to 3 wherein said probes comprise any one of the nucleotide sequences set out in SEQ ID NOS.: 13,233 - 26,232.
5. A spatially-addressable set of single exon nucleic acid
25 probes as claimed in any of claims 1 to 4, wherein each of said plurality of probes is amplifiable using at least one common primer.
6. A spatially-addressable set of single exon nucleic acid
30 probes as claimed in any of claims 1 to 5 wherein the set comprises between 50 - 20,000 single exon nucleic acid probes.
7. A spatially-addressable set of single exon nucleic acid
35 probes as claimed in any of claims 1 to 6, wherein the

average length of the single exon nucleic acid probes is between 200 and 500 bp.

8. A spatially-addressable set of single exon nucleic acid probes as claimed in any of claims 1 to 7, wherein at least 50% of said single exon nucleic acid probes lack prokaryotic and bacteriophage vector sequence.

9. A spatially-addressable set of single exon nucleic acid probes as claimed in any of claims 1 to 8, wherein at least 50% of said single exon nucleic acid probes lack homopolymeric stretches of A or T.

10. A spatially-addressable set of single exon nucleic acid probes as claimed in any of claims 1 - 9 characterised in that said set of probes is addressably disposed upon a substrate.

11. A spatially-addressable set of single exon nucleic acid probes as claimed in claim 10 wherein said substrate is selected from glass, amorphous silicon, crystalline silicon and plastic.

12. A microarray comprising a spatially addressable set of single exon nucleic acid probes as claimed in any of claims 1 - 11.

13. A single exon nucleic acid probe for measuring human gene expression in a sample derived from human placenta comprising a nucleotide sequence as set out in any of SEQ ID NOS.: 1 - 13,232 or a complementary sequence or a fragment thereof wherein said probe hybridizes at high stringency to a nucleic acid molecule expressed in the human placenta.

14. A single exon nucleic acid probe as claimed in claim 13 comprising a nucleotide sequence as set out in any of SEQ ID NOs.: 13,233 - 26,232 or a complementary sequence or a fragment thereof.

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15. A single exon nucleic acid probe for measuring human gene expression in a sample derived from human placenta which is a nucleic acid molecule having a sequence encoding a peptide comprising a peptide sequence as set out in any
10 of SEQ ID NOs.: 26,233 - 38,837, or a complementary sequence or a fragment thereof wherein said probe hybridizes at high stringency to a nucleic acid expressed in the human placenta.

15 16. A single exon nucleic acid probe as claimed in any one of claims 13 to 15 wherein said single exon nucleic acid probe comprises between 15 and 25 contiguous nucleotides of said SEQ ID NO.

20 17. A single exon nucleic acid probe as claimed in any one of claims 13 to 15, wherein said probe is between 3 - 25 kb in length.

18. A single exon nucleic acid probe as claimed in any one
25 of claims 13 - 17, wherein said probe is DNA, RNA or PNA.

19. A single exon nucleic acid probe as claimed in any one of claims 13 - 18, wherein said probe is detectably labeled.

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20. A single exon nucleic acid probe as claimed in any one of claims 13 - 19, wherein said probe lacks prokaryotic and bacteriophage vector sequence.

35 21. A single exon nucleic acid probe as claimed in any one

of claims 13 - 20, wherein said probe lacks homopolymeric stretches of A or T.

22. A method of measuring gene expression in a sample
5 derived from human placenta, comprising:
 contacting the microarray of claim 12, with a first
 collection of detectably labeled nucleic acids,
 said first collection of nucleic acids derived
 from mRNA of human placenta; and then
10 measuring the label detectably bound to each probe of
 said microarray.

23. A method of identifying exons in a eukaryotic genome,
comprising:
15 algorithmically predicting at least one exon from
 genomic sequence of said eukaryote; and then
 detecting specific hybridization of detectably labeled
 nucleic acids to a single exon probe,
wherein said detectably labeled nucleic acids are derived
20 from mRNA from the placenta of said eukaryote, said probe
is a single exon probe having a fragment identical in
sequence to, or complementary in sequence to, said
predicted exon, said probe is included within a microarray
according to claim 12, and said fragment is selectively
25 hybridizable at high stringency.

24. A method of assigning exons to a single gene,
comprising:
 identifying a plurality of exons from genomic
30 sequence according to the method of claim 23; and
 then
 measuring the expression of each of said exons in a
 plurality of tissues and/or cell types using
 hybridization to single exon microarrays having a
35 probe with said exon,

wherein a common pattern of expression of said exons in said plurality of tissues and/or cell types indicates that the exons should be assigned to a single gene.

5 25. A nucleic acid sequence as set out in any of SEQ ID Nos: 1 - 26,232 which encodes a peptide.

26. A peptide encoded by a sequence as set out in any of SEQ ID Nos: 1 - 26,232.

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27. A peptide comprising a sequence as set out in any of SEQ ID Nos: 26,233 - 38,837.

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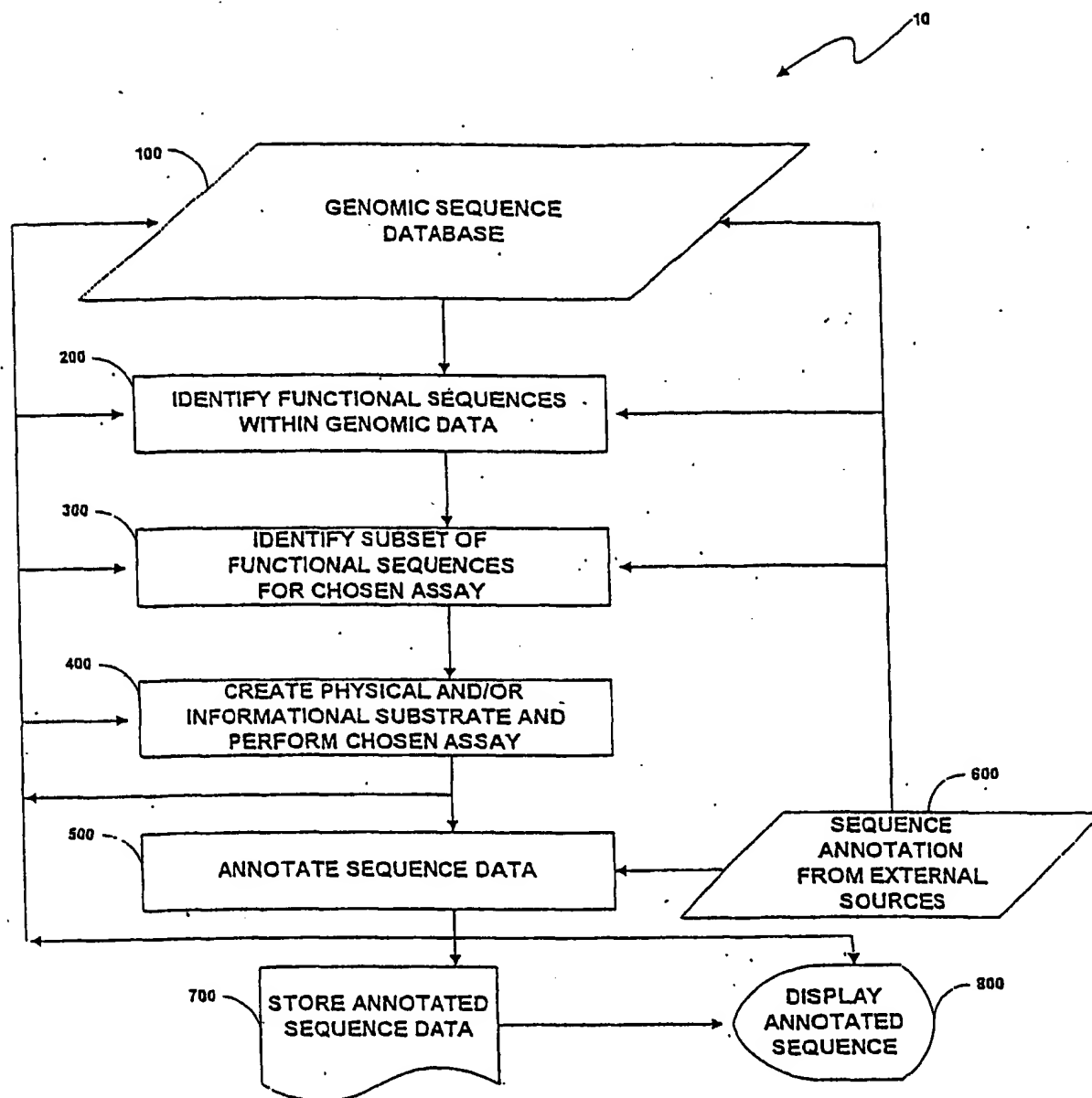


Fig. 1

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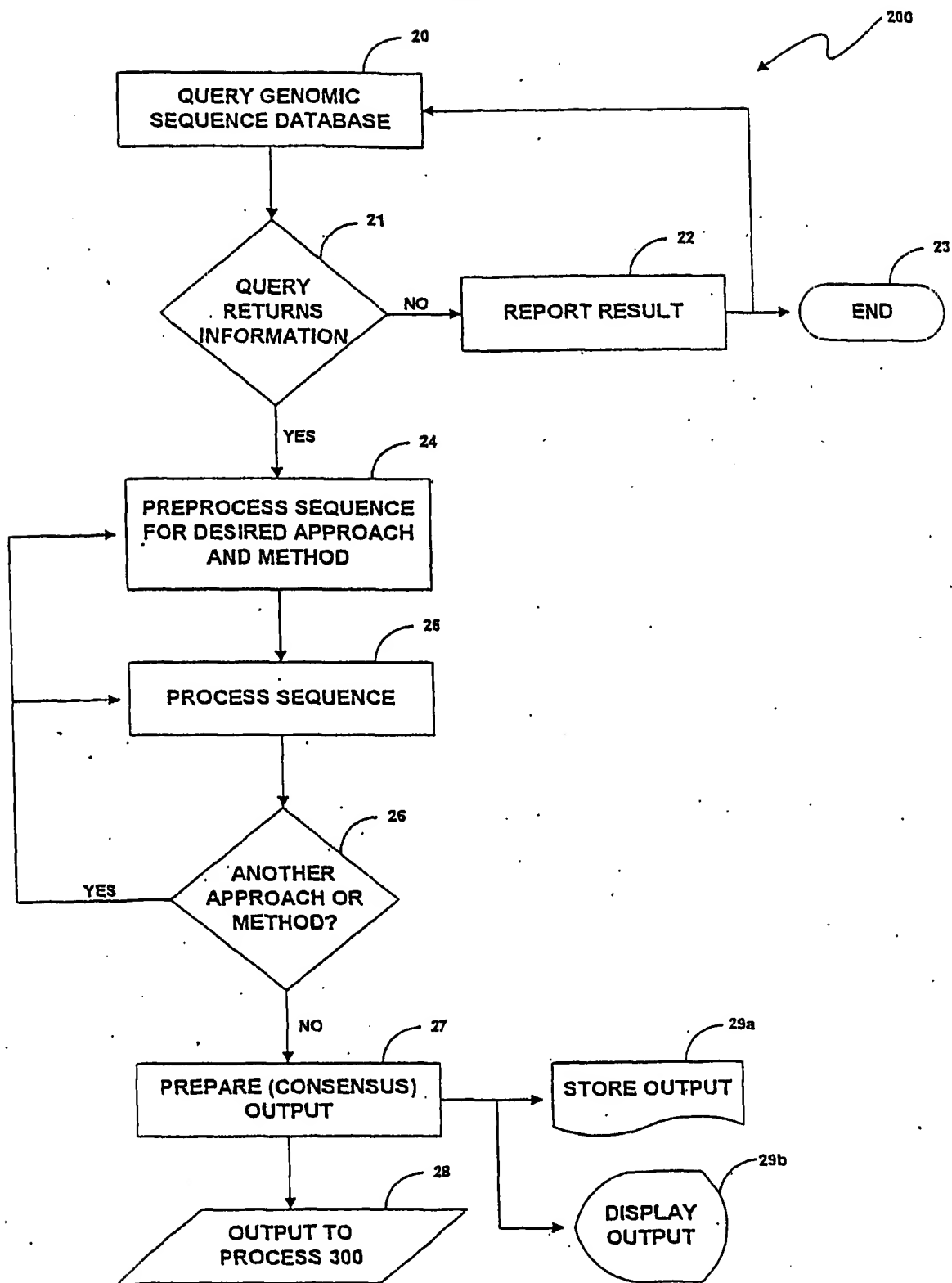
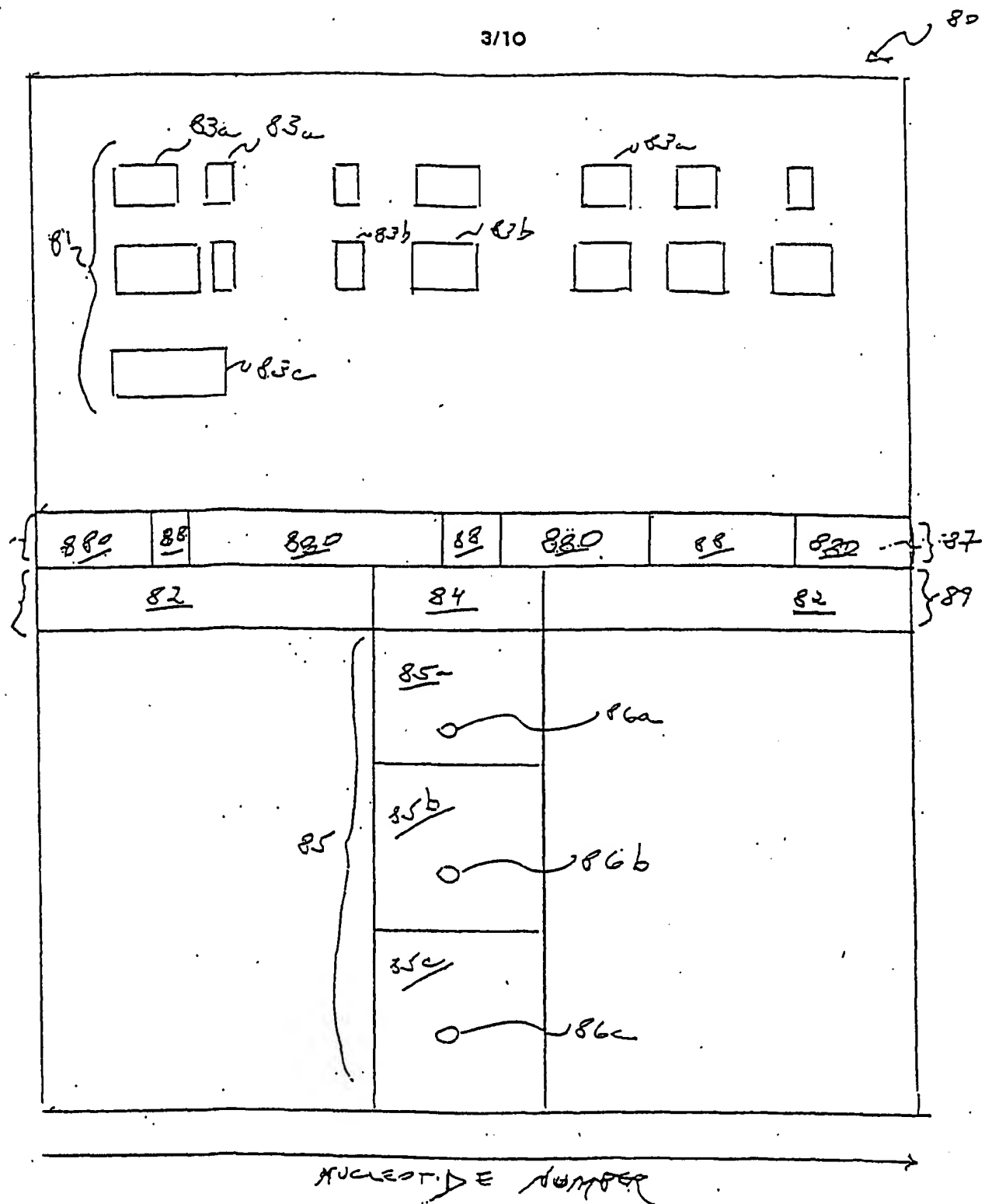


Fig. 2

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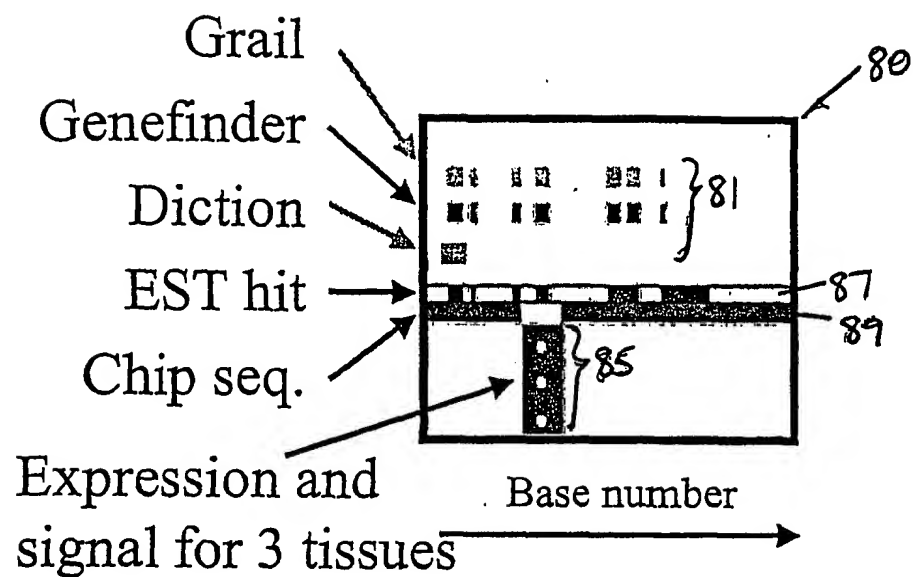


Fig. 4

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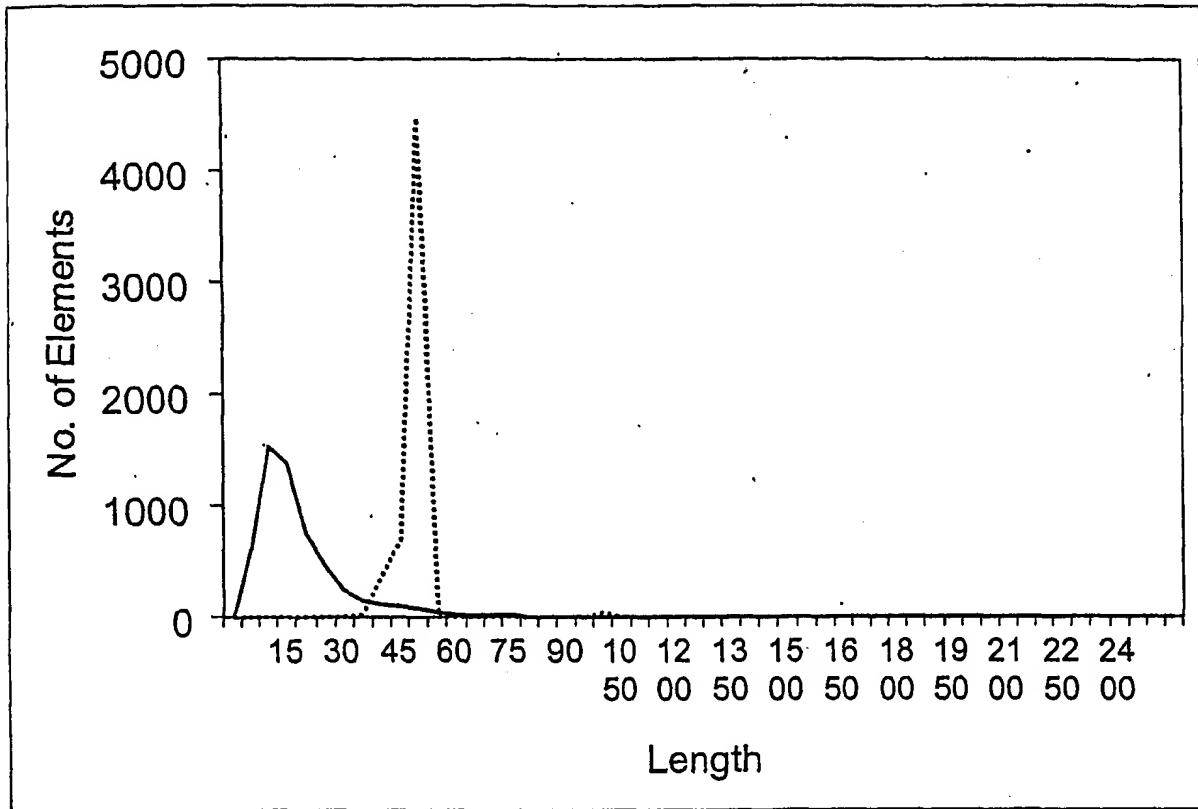


Fig. 5

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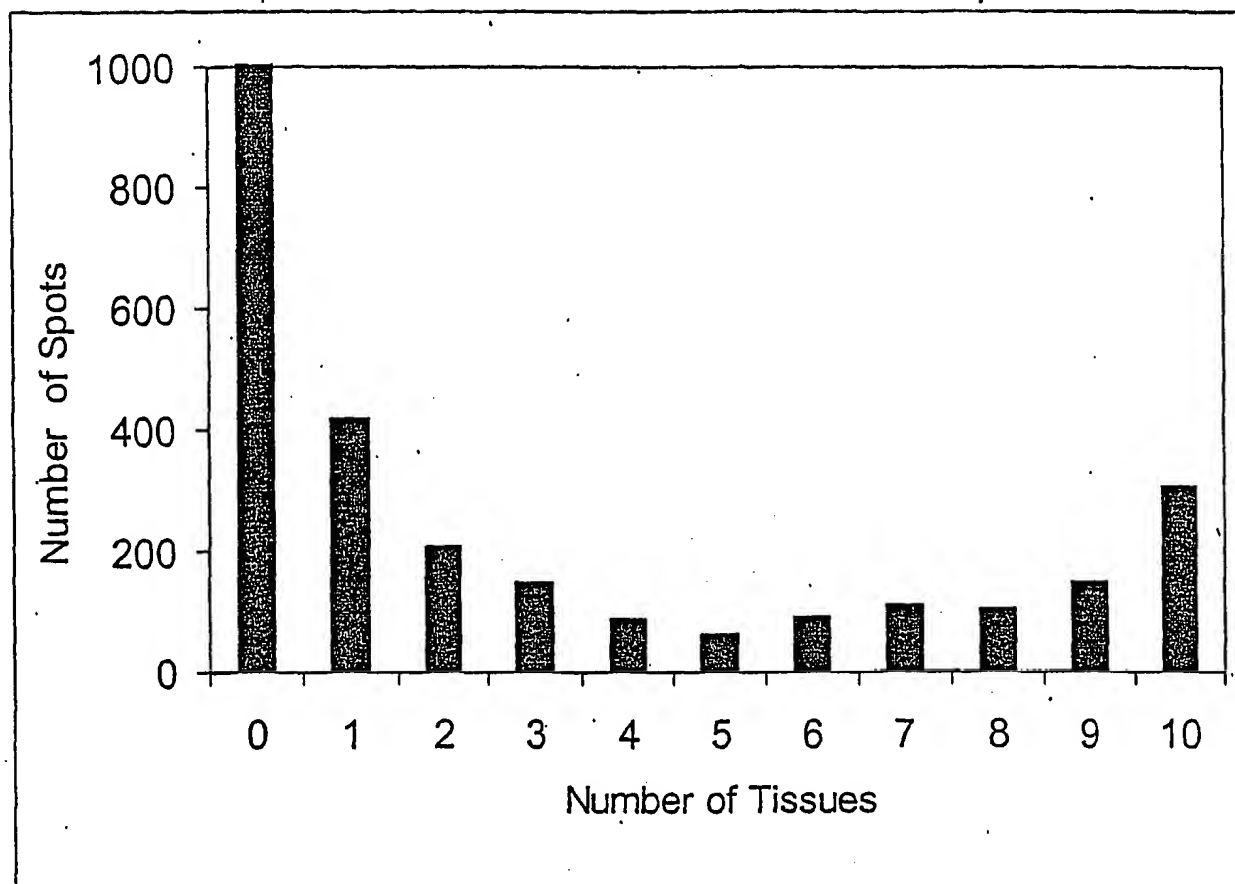
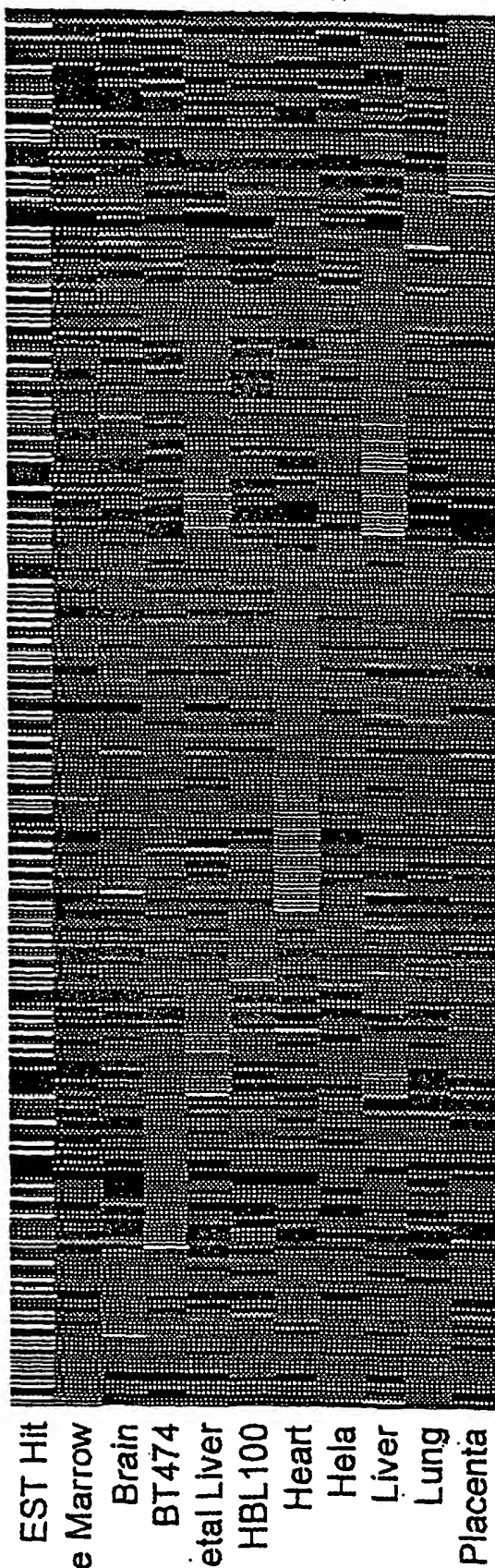


Fig. 6



EST Hit
Bone Marrow
Brain
BT474
Fetal Liver
HBL100
Heart
Hela
Liver
Lung
Placenta

Fig. 7a

ratio legend

>9
8
7
6
5
4
3
2
1

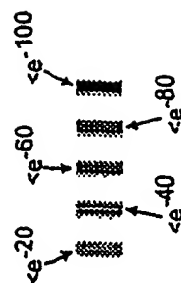


Fig. 7b

Fig. 7c

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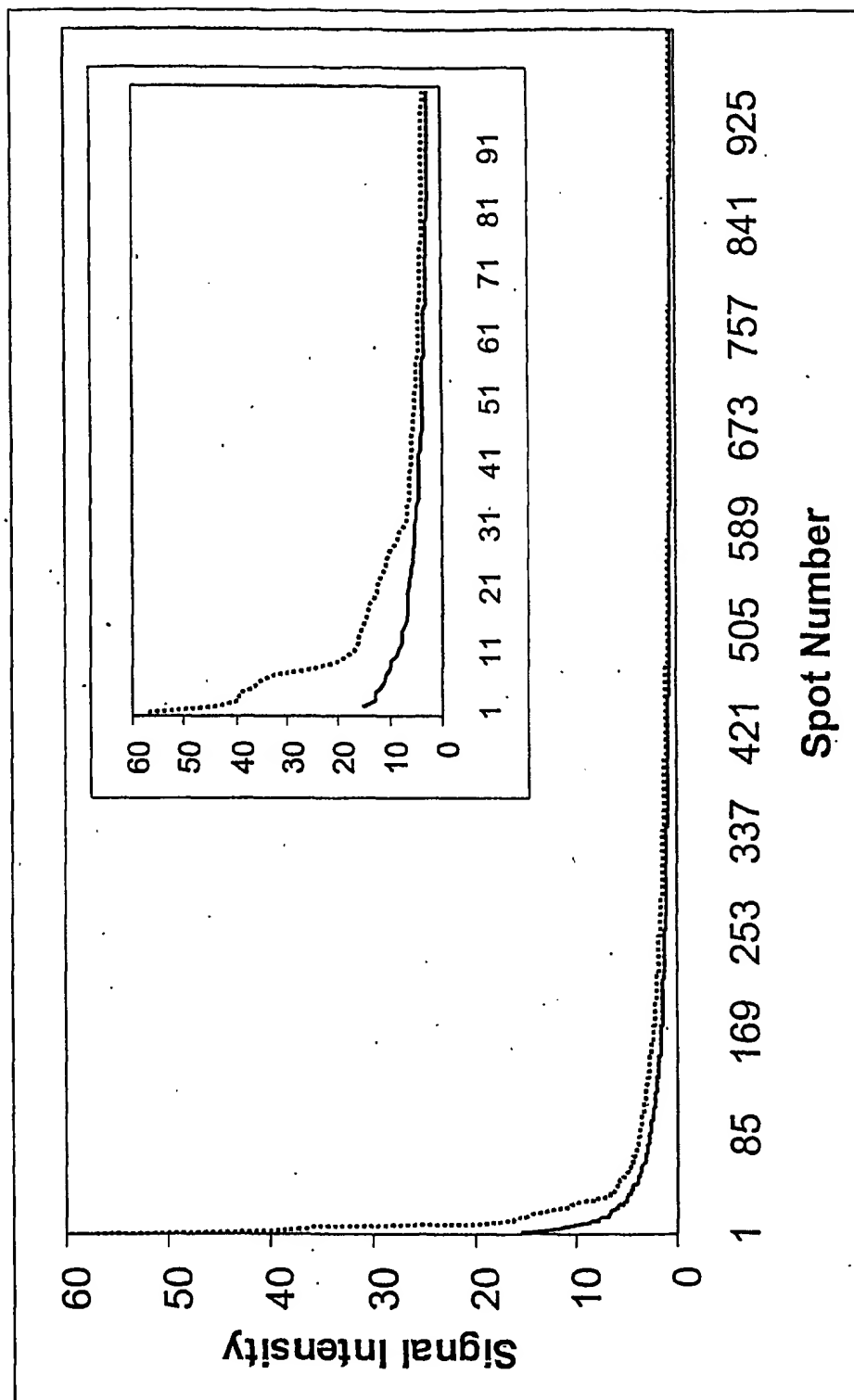


Fig. 8

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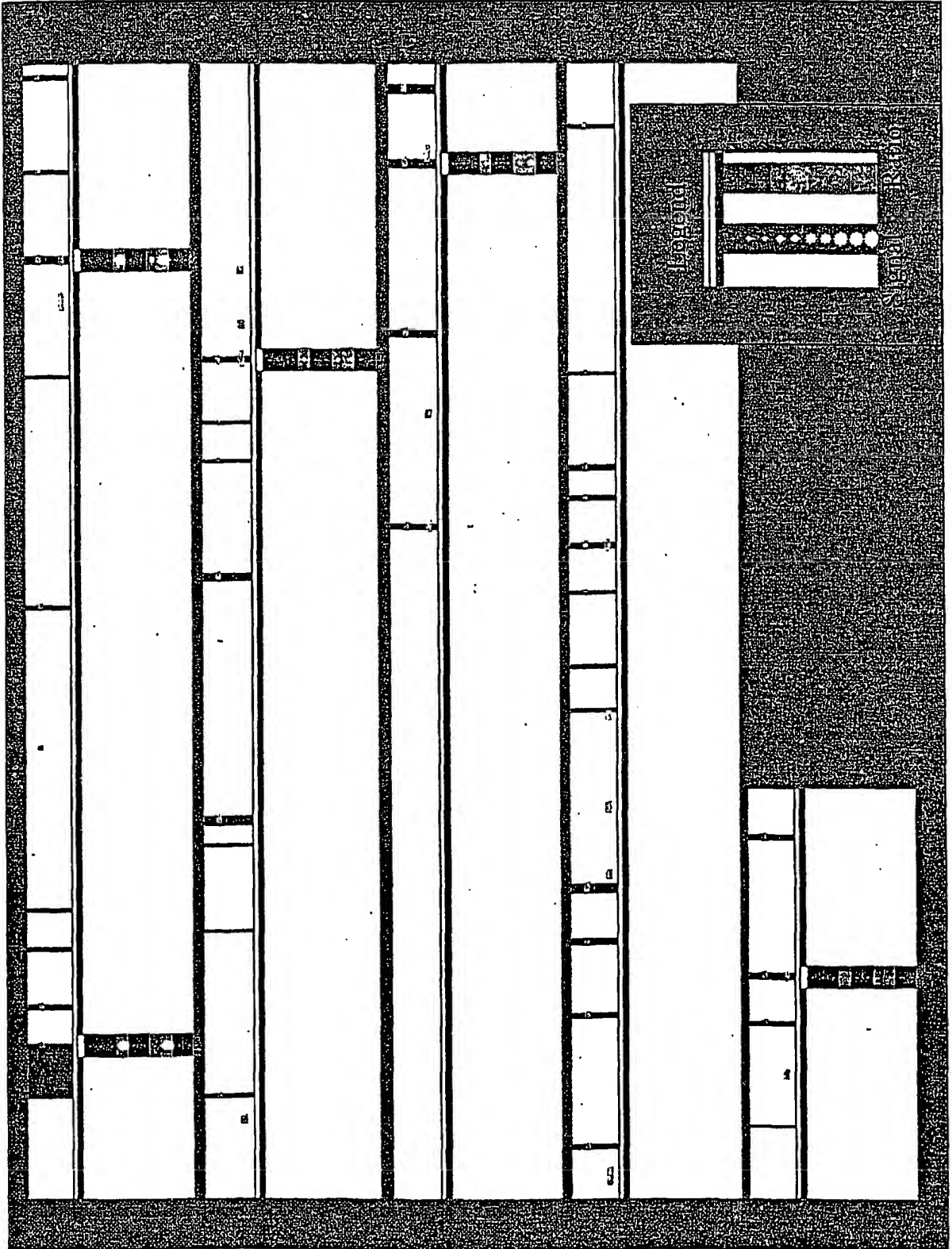


Fig. 9

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Fig. 10

